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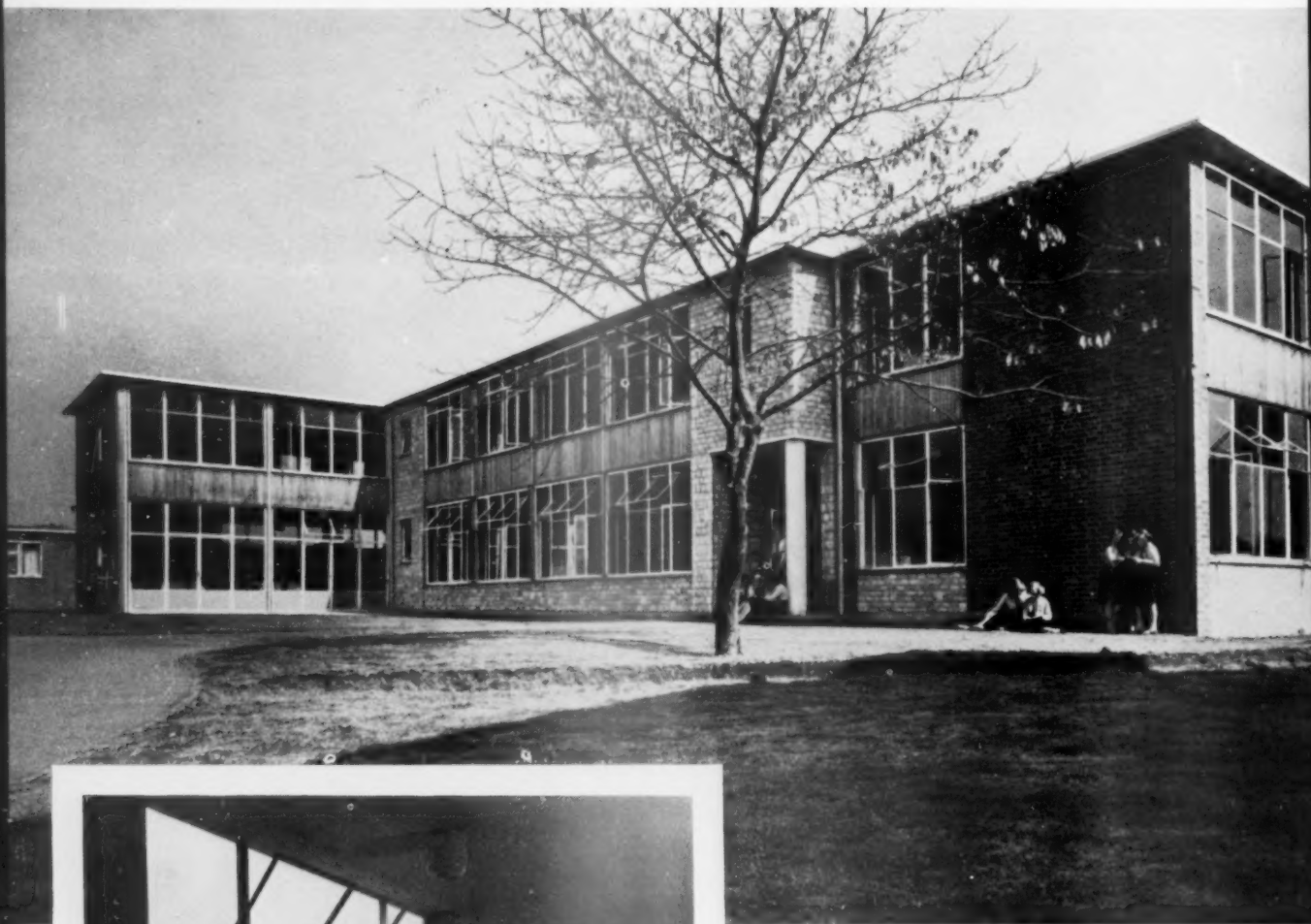
# The Architect & Building News

5 October 1960 V.218/14 1s. Weekly

Police Station, Watford  
College of Food Technology  
Measured Rates



# *Specify* **NEWMAN'S** Window opening gear



## **Buildings of today...**

The Girls Grammar School, Stratford on Avon, is a fine example of contemporary architecture, blending with an existing traditional building. This can be seen on the interior view, where another point worthy of note is the neat and unobtrusive appearance of Newman's Window Opening Gear.

*John P. Osborne & Son F/A.R.I.B.A. Architects  
in collaboration with*

*G. R. Barnsley F.R.I.B.A. County Architect, Warwickshire*

*Window Contractors: W. & J. H. Oldaker*

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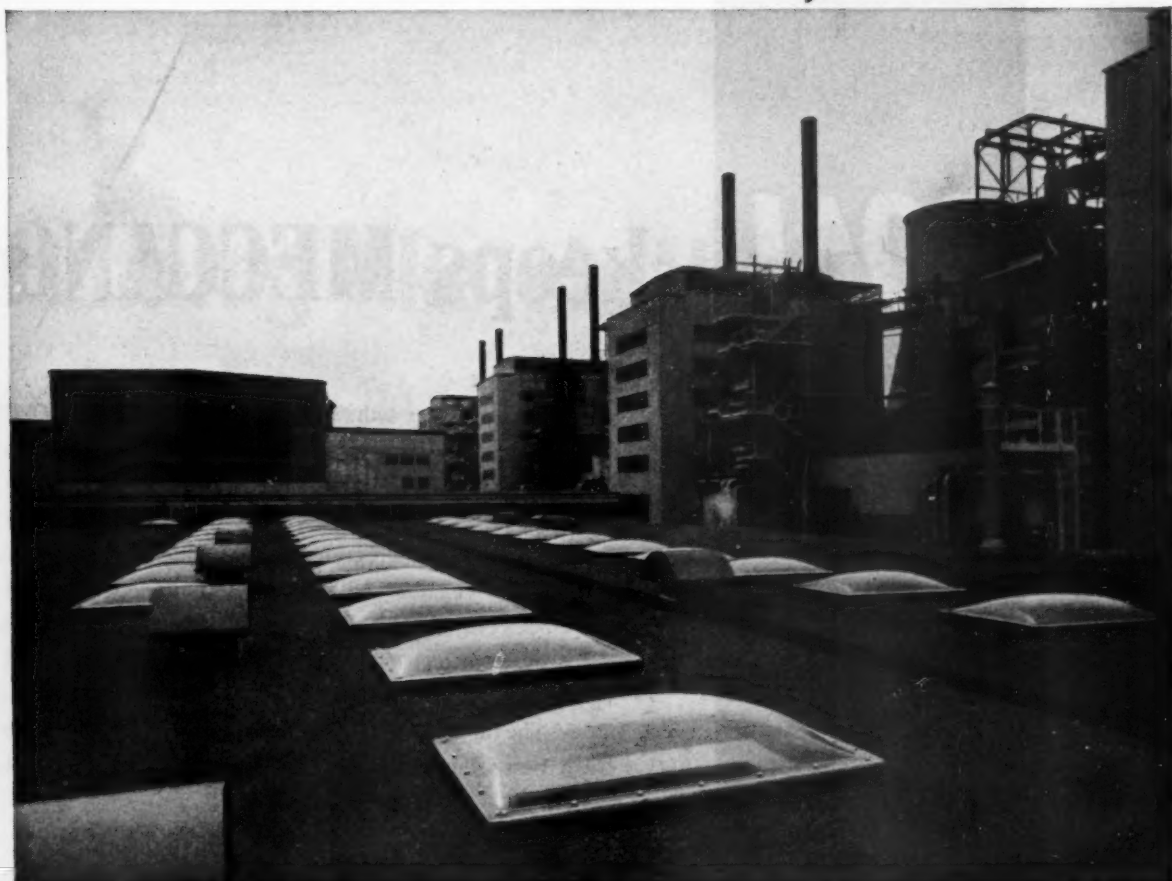
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Domelights made from 'Perspex' acrylic sheet by Cordar Ltd., Dean Street, Newcastle-on-Tyne, on the new extension to workshops and stores building at United Kingdom Atomic Energy Authority, Chapelcross Works, Annan, Dumfriesshire. Consulting Engineers: Messrs. Merz and McLellan, Newcastle-on-Tyne. Architects: Messrs. L. J. Couves & Partners, F.F./A.A.R.I.B.A. Newcastle-on-Tyne.

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P781

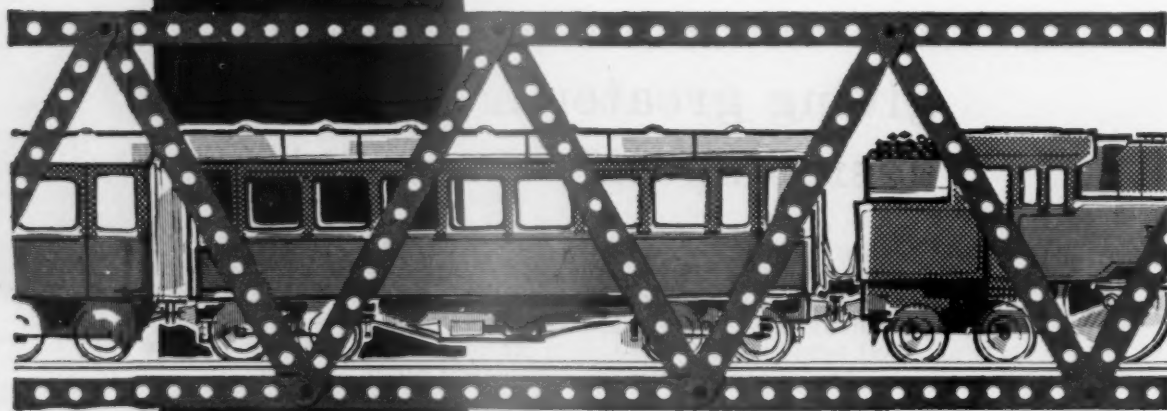


**COAL****keeps MECCANO**

There are some names we learn in our boyhood that never lose their magic—and Meccano is one of them. Today, this name, so intimately connected with enamelled pieces of steel strips and plates that made every youngster a constructional engineer has an even wider appeal. Together with Hornby trains—electric and clockwork—Dinky Toys and Bayko, Meccano now provides a quartet of delight for boys and girls—and their fathers!

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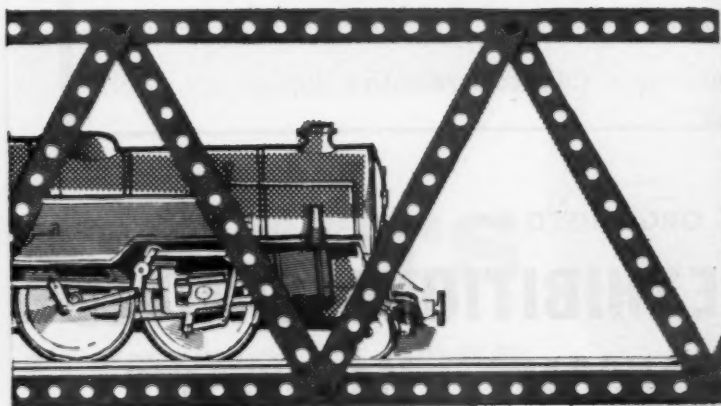


# running like clockwork

dealing with grown-up affairs, like choosing *coal* to fuel its great powerhouses at Liverpool and Aintree. Coal was chosen because coal provides more heat for the money than any other fuel. Coal, mechanically stoked, is smokeless. And in our coalfields there is enough coal to keep British industry going at top production for generations to come.

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#### *Here are some key facts and figures about the consumption of coal at Meccano:*

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Method of firing:	.....chain grate stokers
Steam pressure:	.....120 p.s.i.
Continuous max. rating:	.....6,500 lbs. per hour
Steam temperature:	.....350°F.
Feed temperature:	.....180°F.
Annual fuel consumption:	.....2,260 tons of coal

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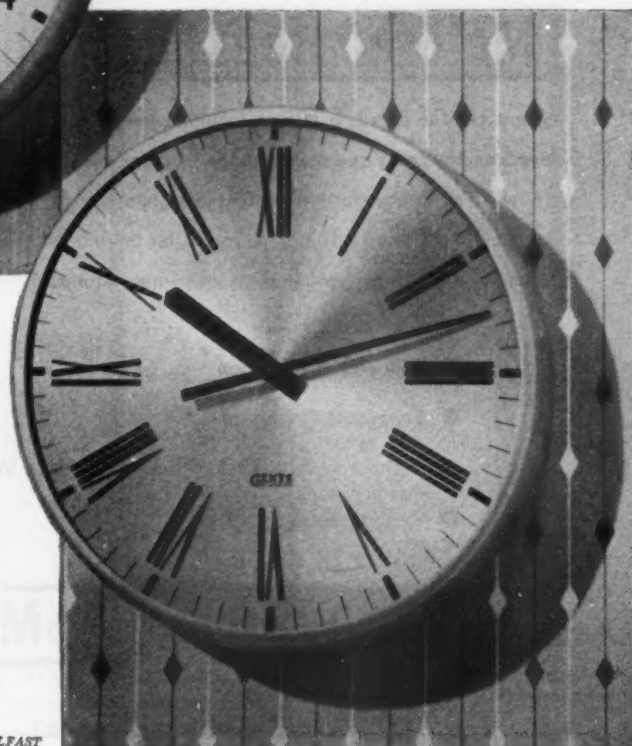
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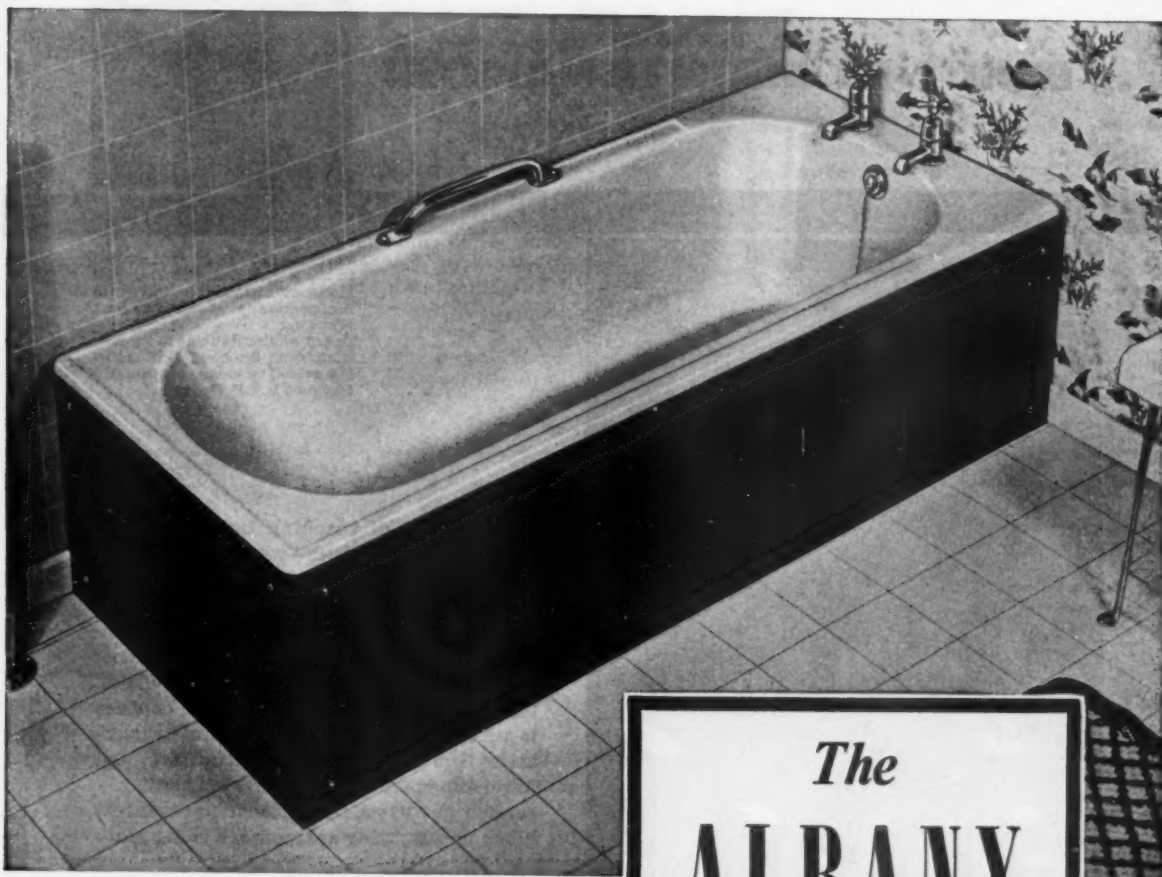
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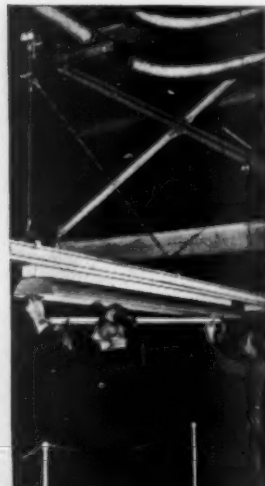


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*Left:* Modular lighting in the new library at Sheffield University is serviced by means of specially designed L.E.F. Gear.



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# 255

EXPERT OPINIONS ON

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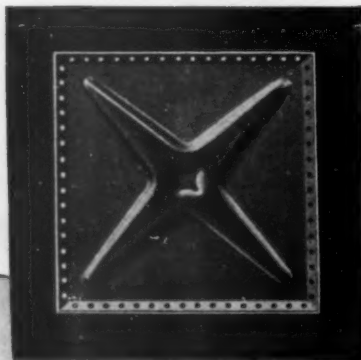
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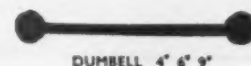
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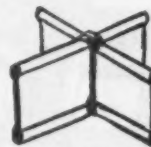
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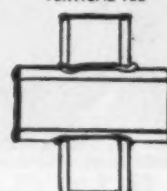
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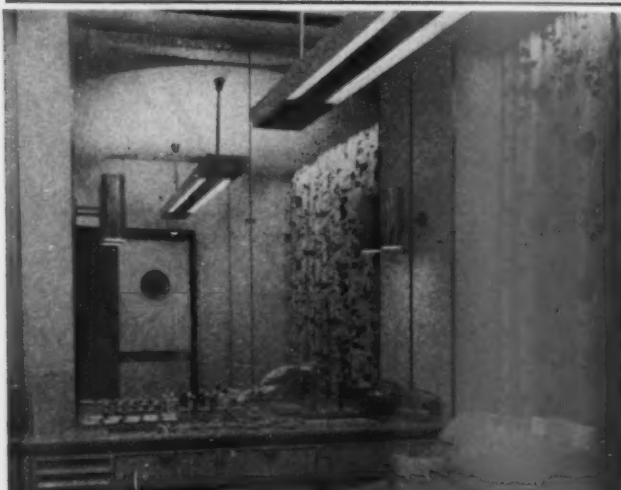
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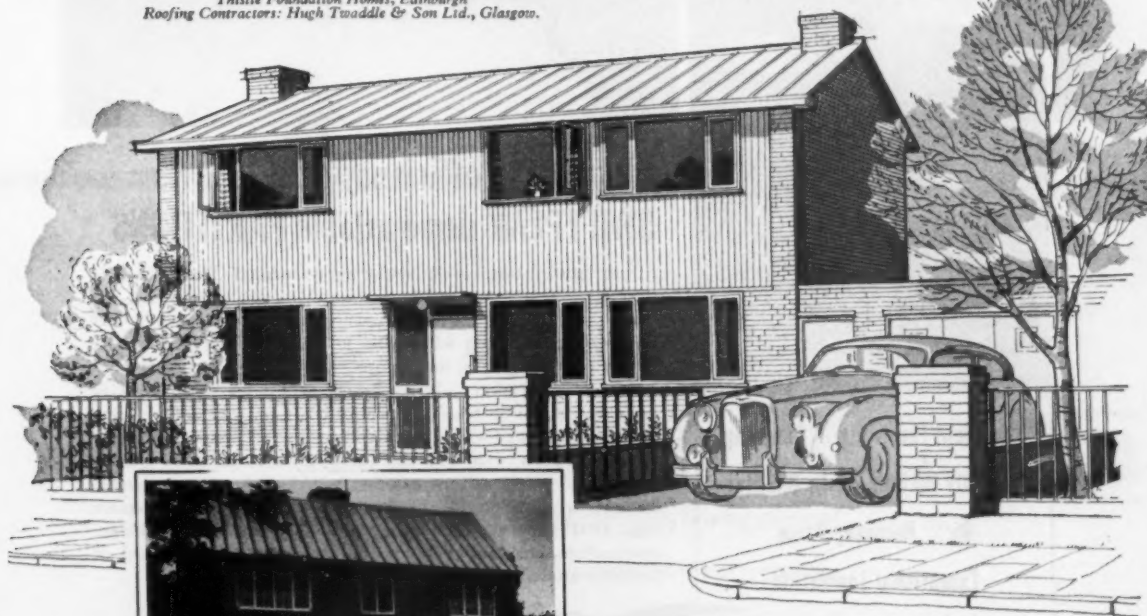
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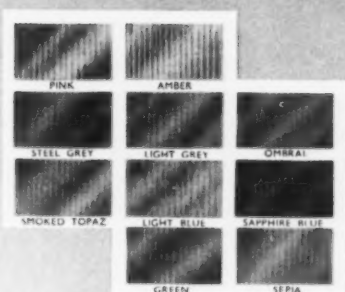
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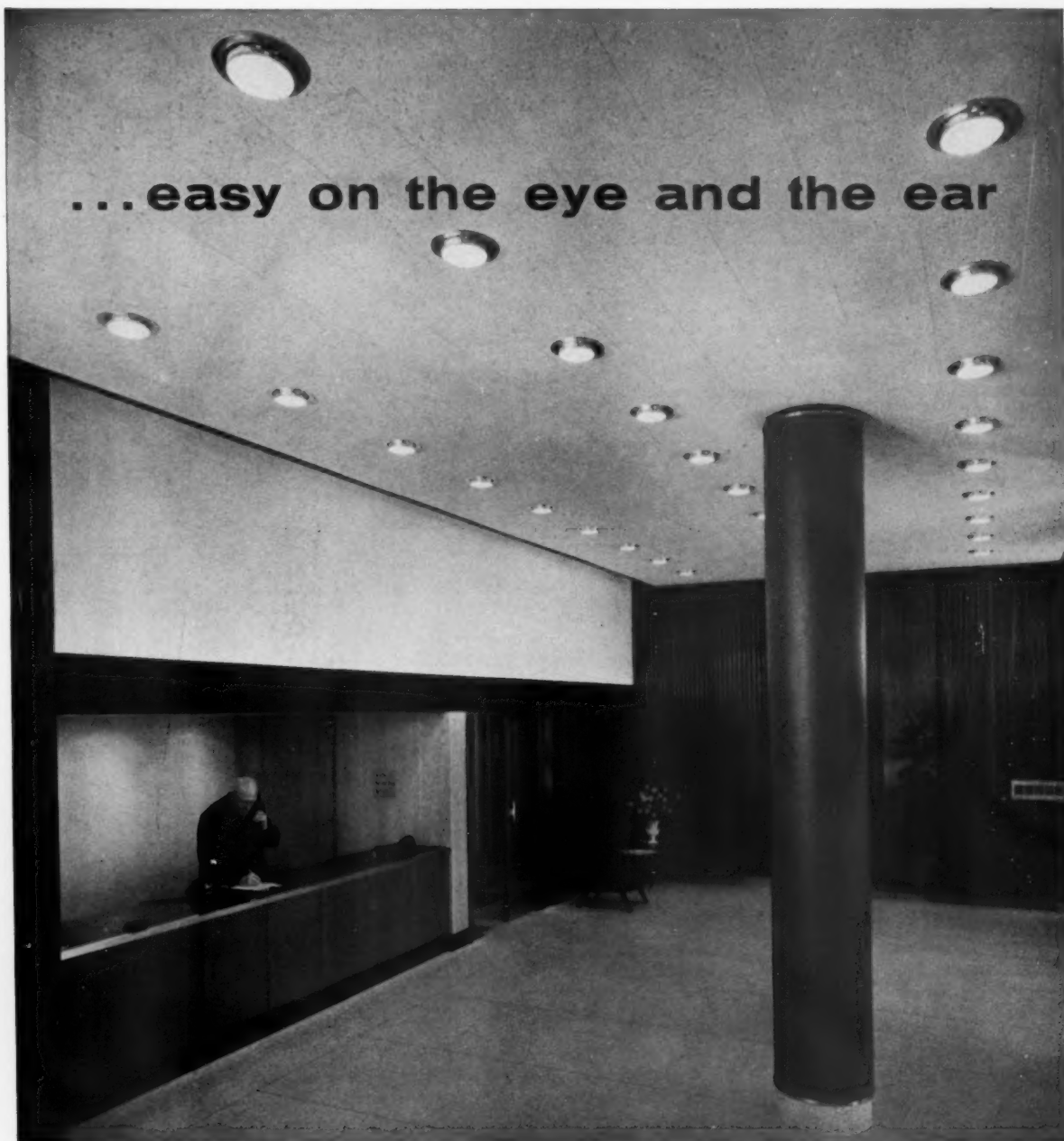
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Entrance Hall, County Laboratories, Brentford

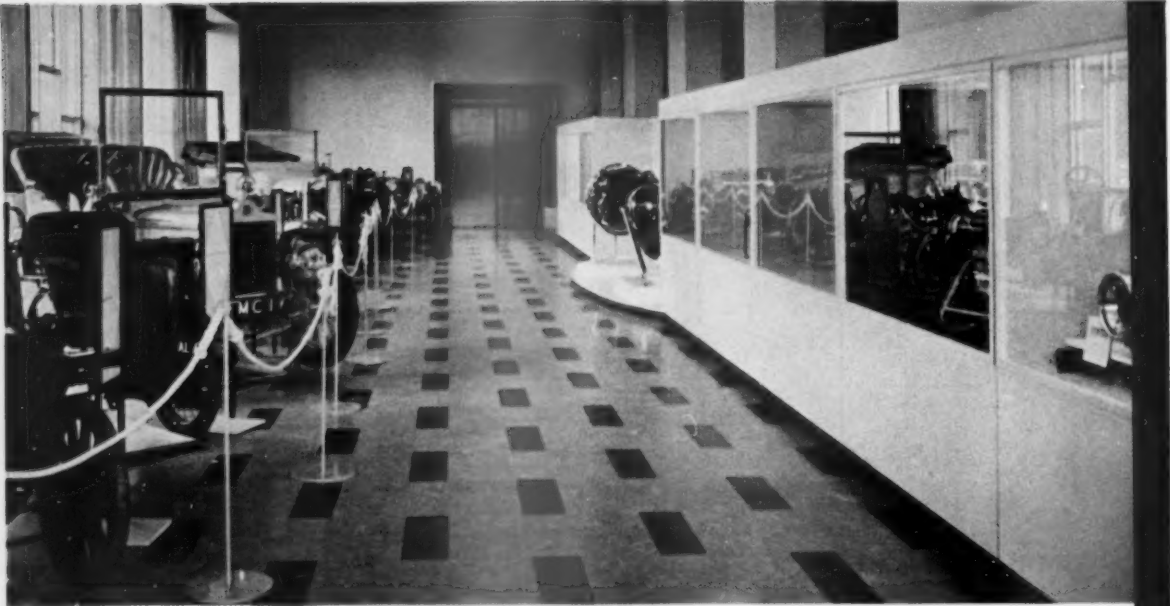
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AT.16



*These floors in the Herbert Museum and Art Gallery, Coventry are covered with Williamson's heavy grade linoleum (4.50 mm.)*

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*British Ceramic Tiles at the Kings Hall, Stoke-on-Trent  
Architect: F. S. King, A.R.I.B.A., (Wood, Goldstraw & Yorath)*

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Above ensemble of British Ceramic Tiles was the glowing centre-piece of the Jubilee Exhibition of Ceramics at Kings Hall. Glazed Mosaic - tiled horses showered sparkling water into a tiled lily-pool, flanked by colourful examples of self-colours and decorated modern tiling which demonstrated that, for wall and floor surfaces, ceramic tiles have no peer. The gay scene was visited and admired by Ceramists from almost every country in the world.



*A beautiful book with scores of delightful coloured illustrations, 32 pages size 11 $\frac{3}{4}$ " x 8 $\frac{1}{2}$ " entitled "Modernising or Idealising with British Ceramic Tiles" will be sent you, if you send your name and address and 1/- to cover cost of packing and postage only to \**

\* Dept.C. BRITISH CERAMIC TILE COUNCIL, FEDERATION HOUSE, STOKE-ON-TRENT.

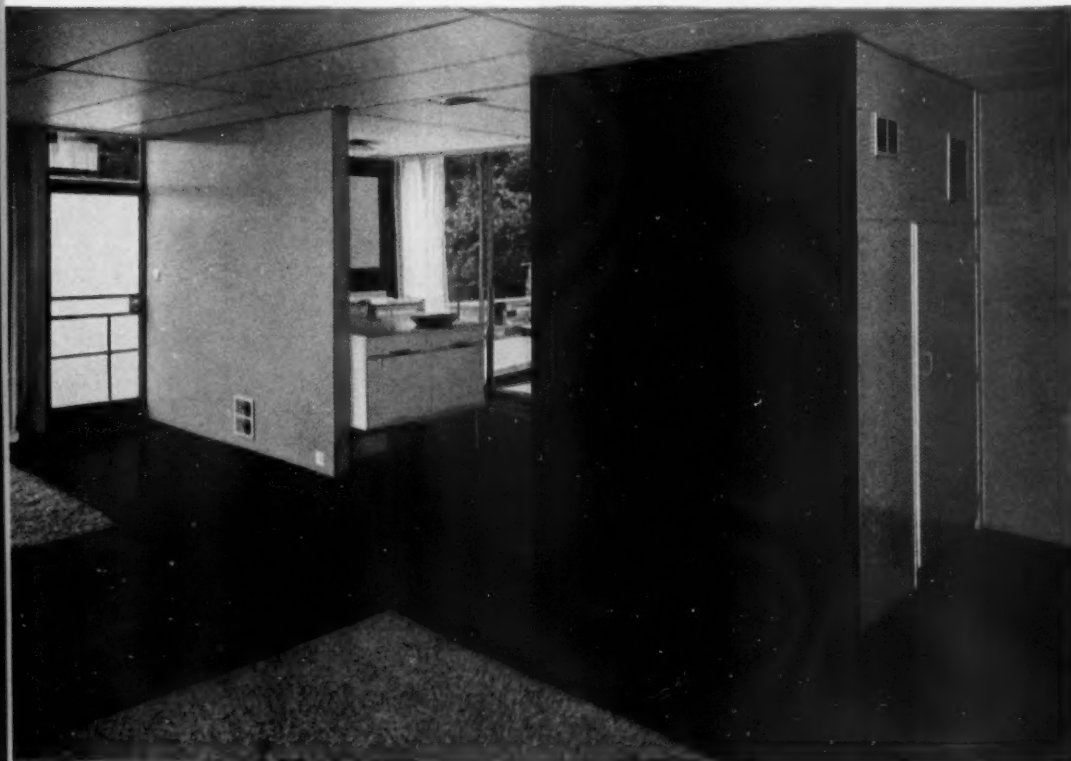
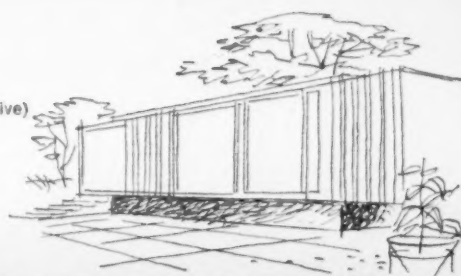


## HOUSE AT BRANCH LANE, ALMONDBURY, YORKS,

featuring Nairn Vinyl tiles. Photo: Mann Bros. (Courtesy Peter Stead of Design Collaborative)

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ARCHITECTURAL DESIGN, July 1959



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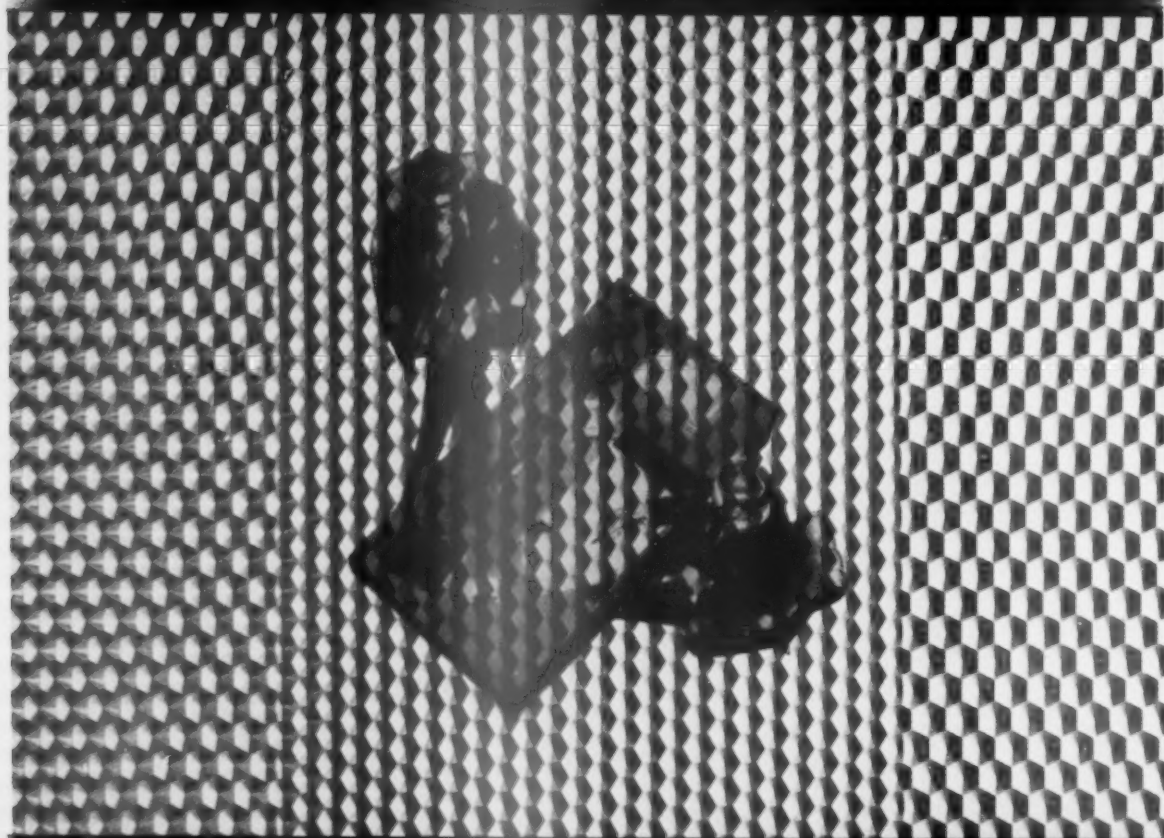
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# COLOUR



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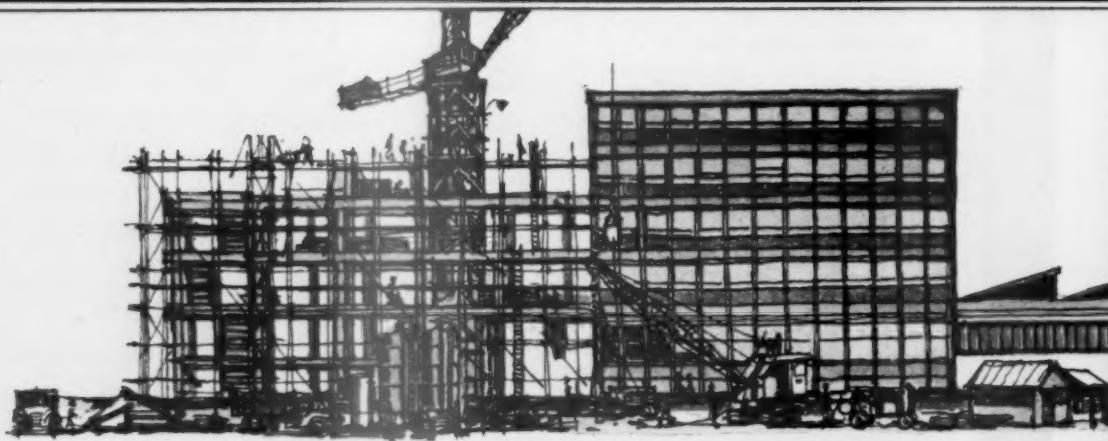
*The Architect & Building News, 5 October 1960*

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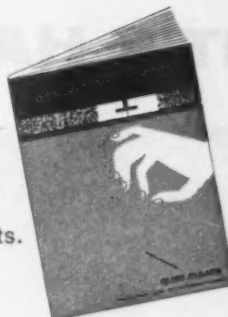


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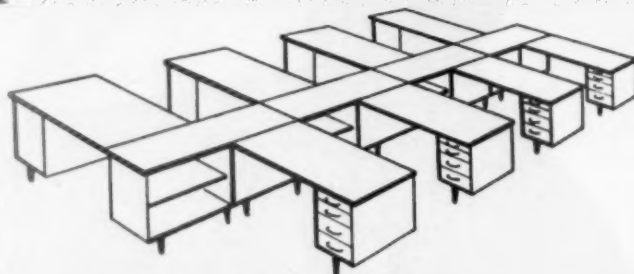
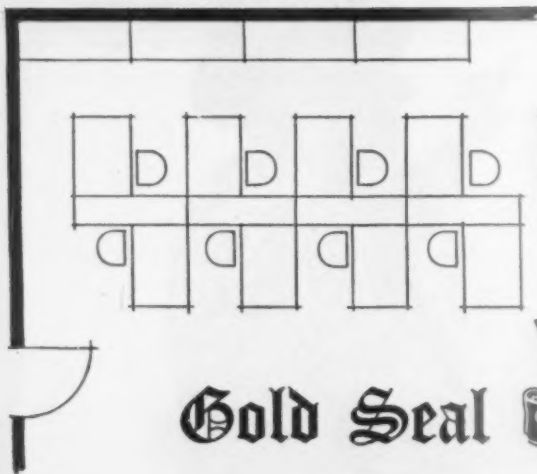
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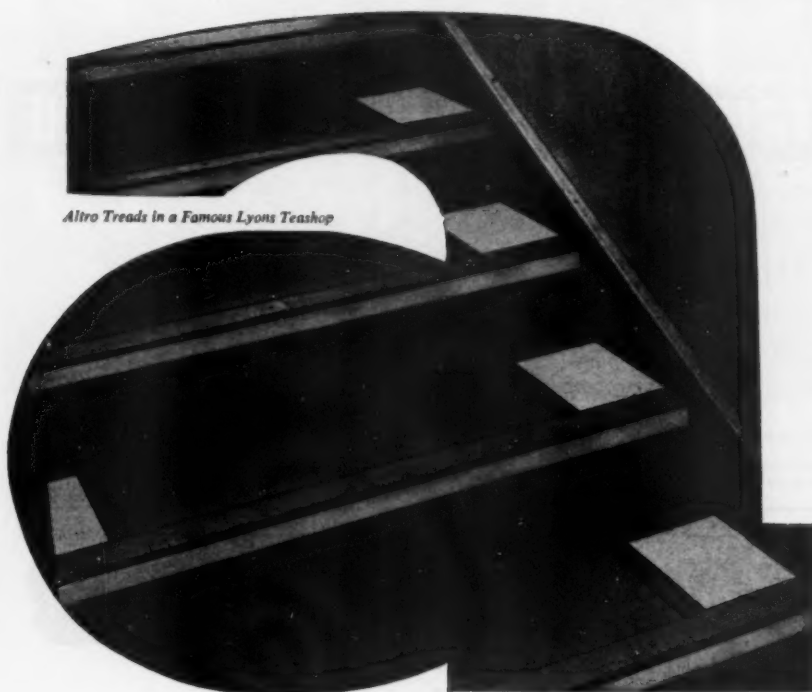
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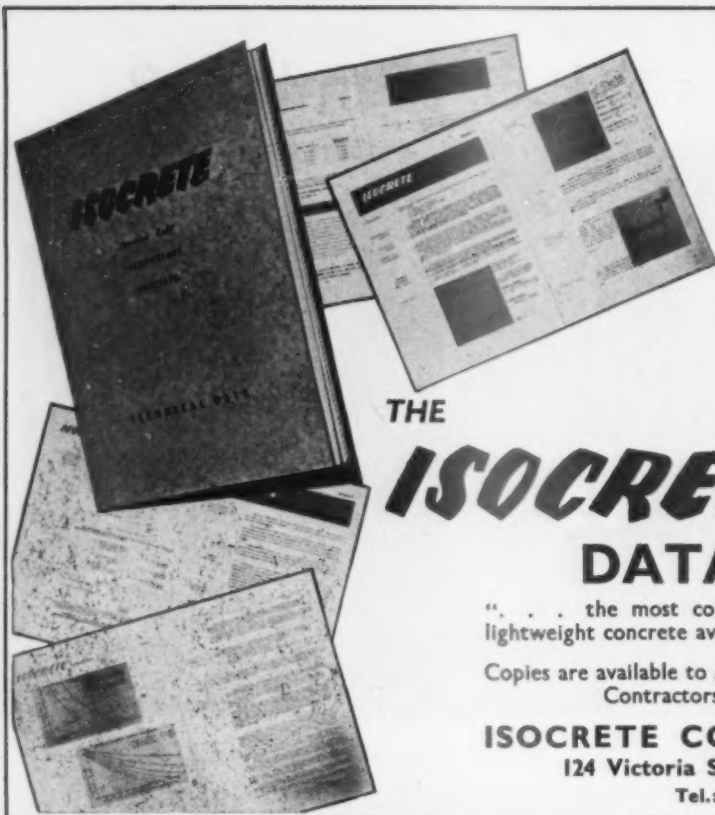
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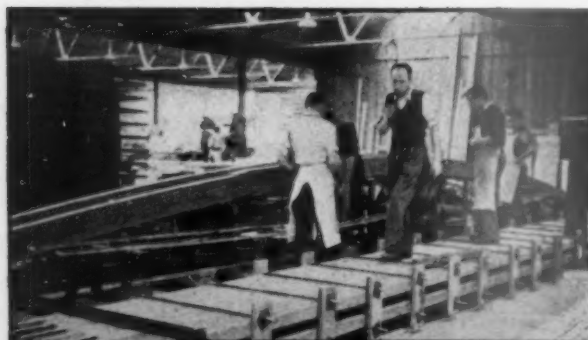
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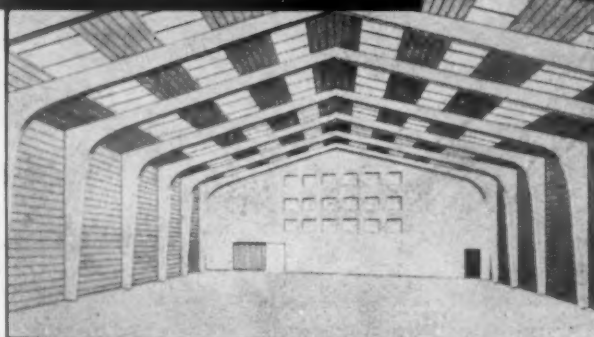
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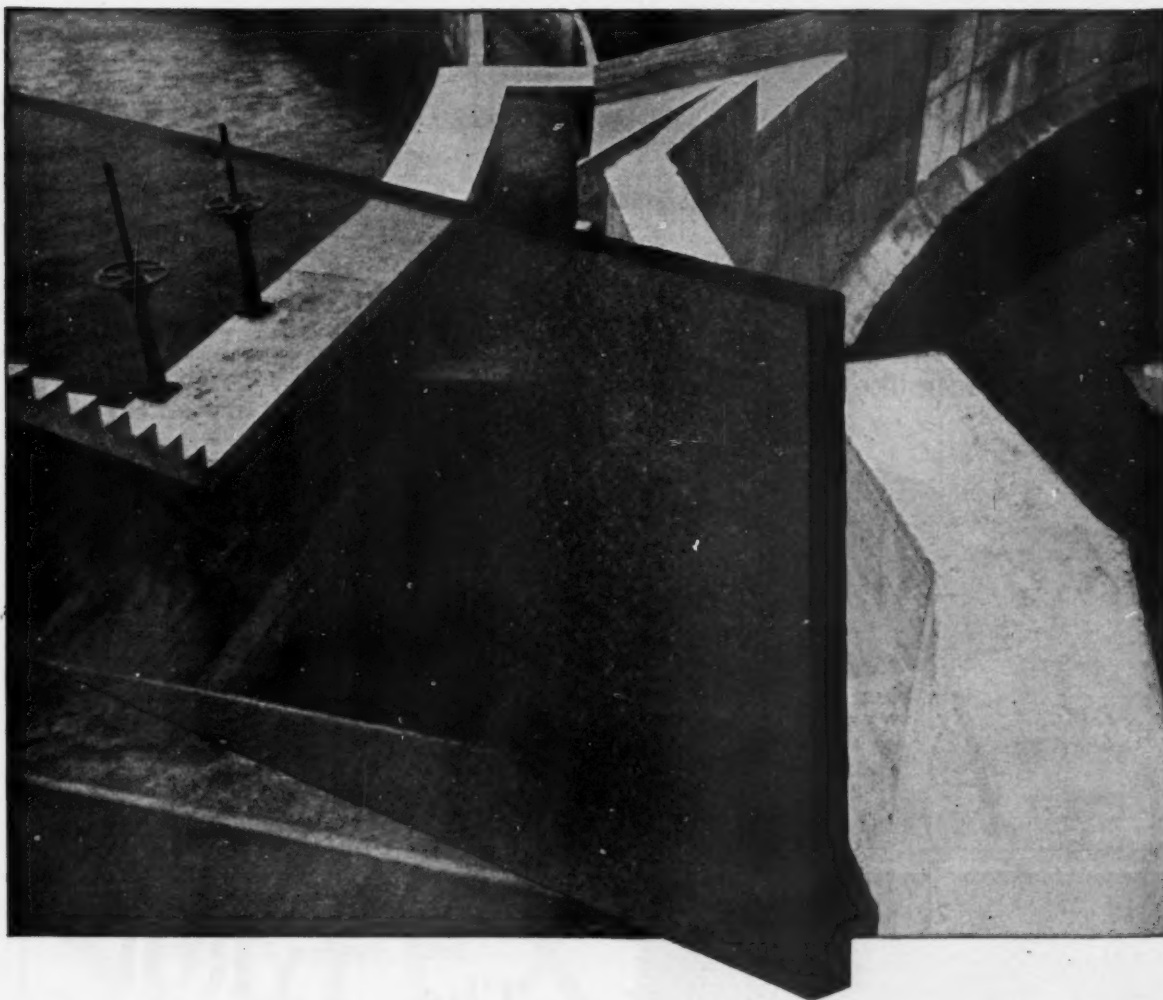
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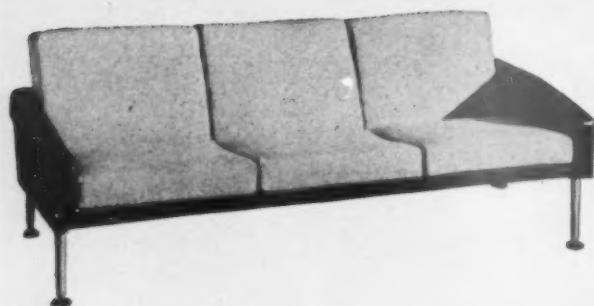
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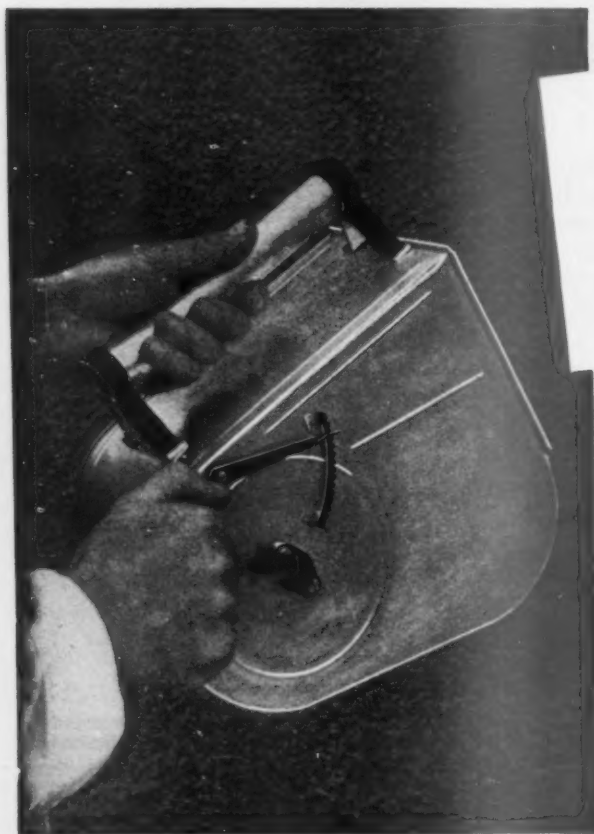
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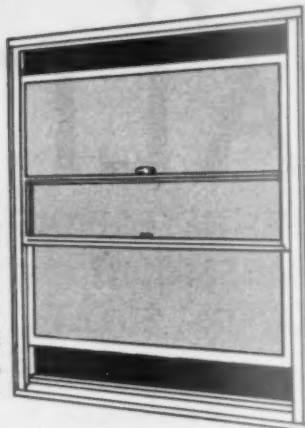
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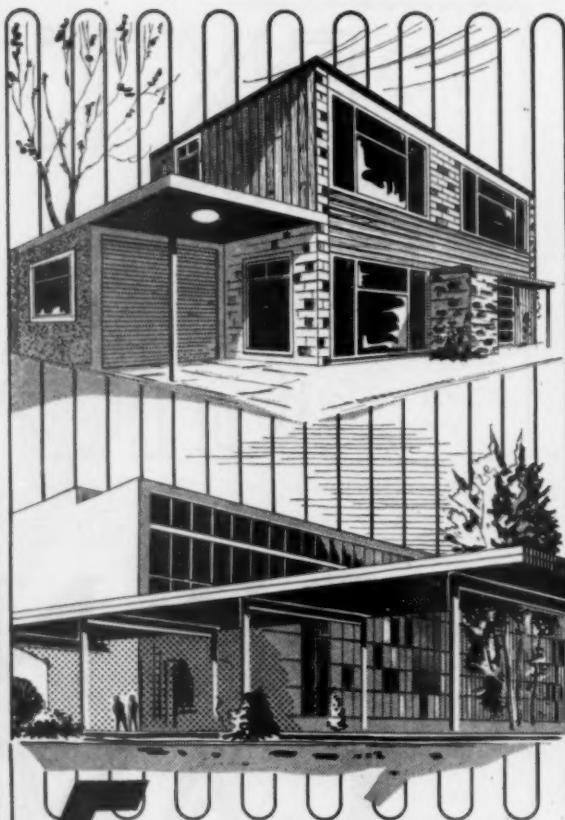


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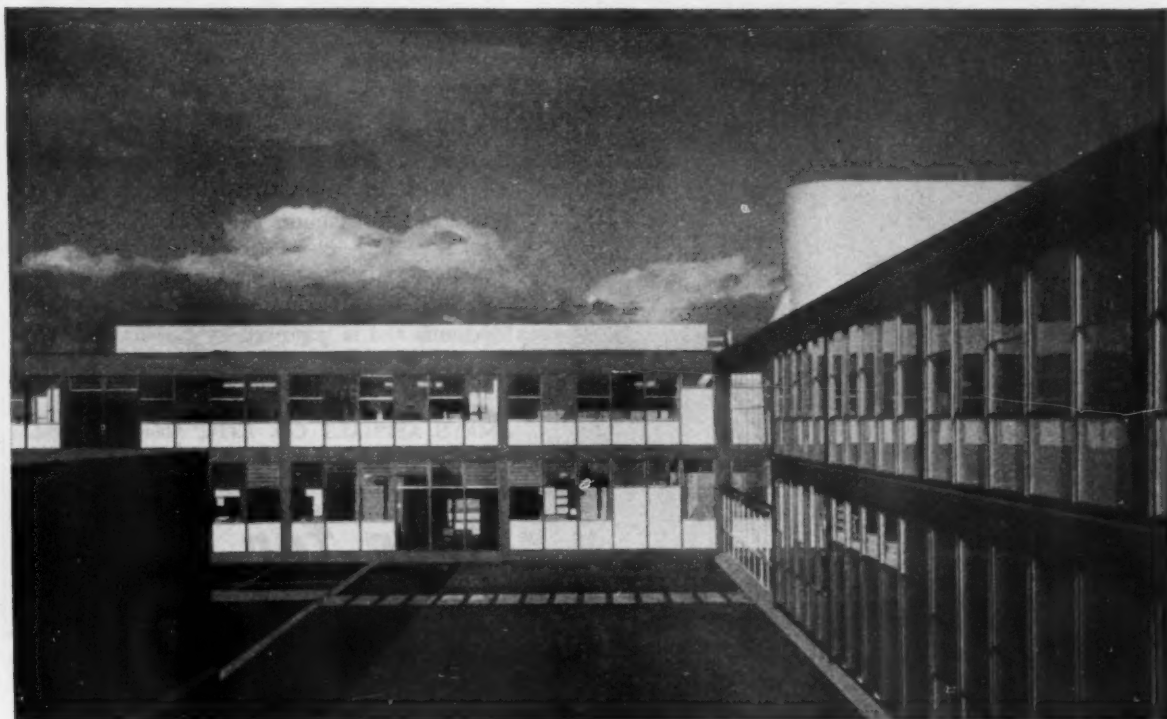
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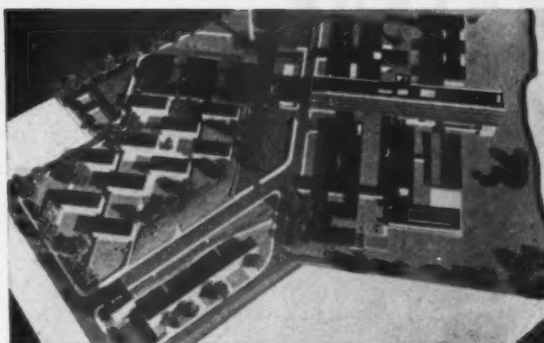
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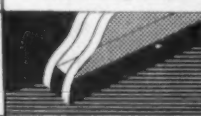
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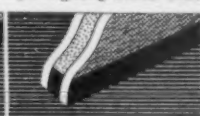
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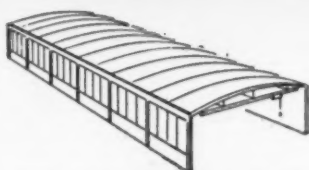
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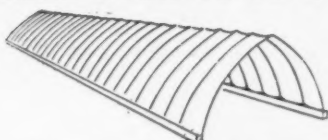
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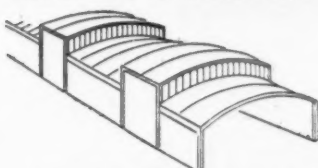
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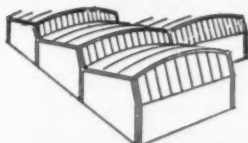
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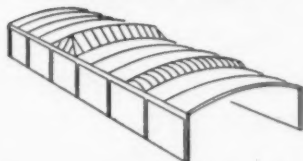
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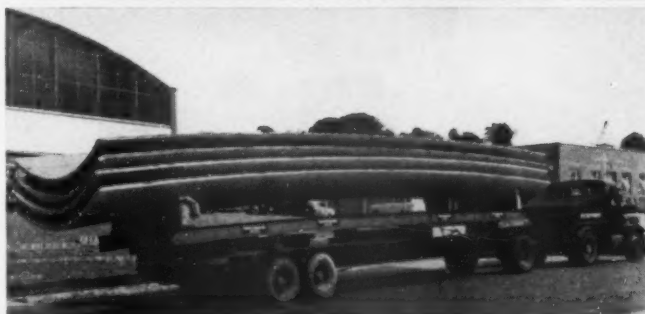
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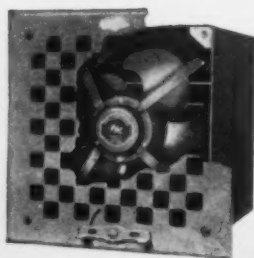
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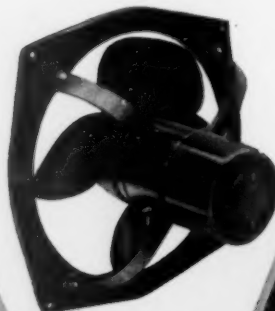
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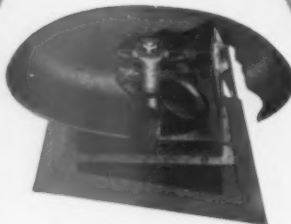
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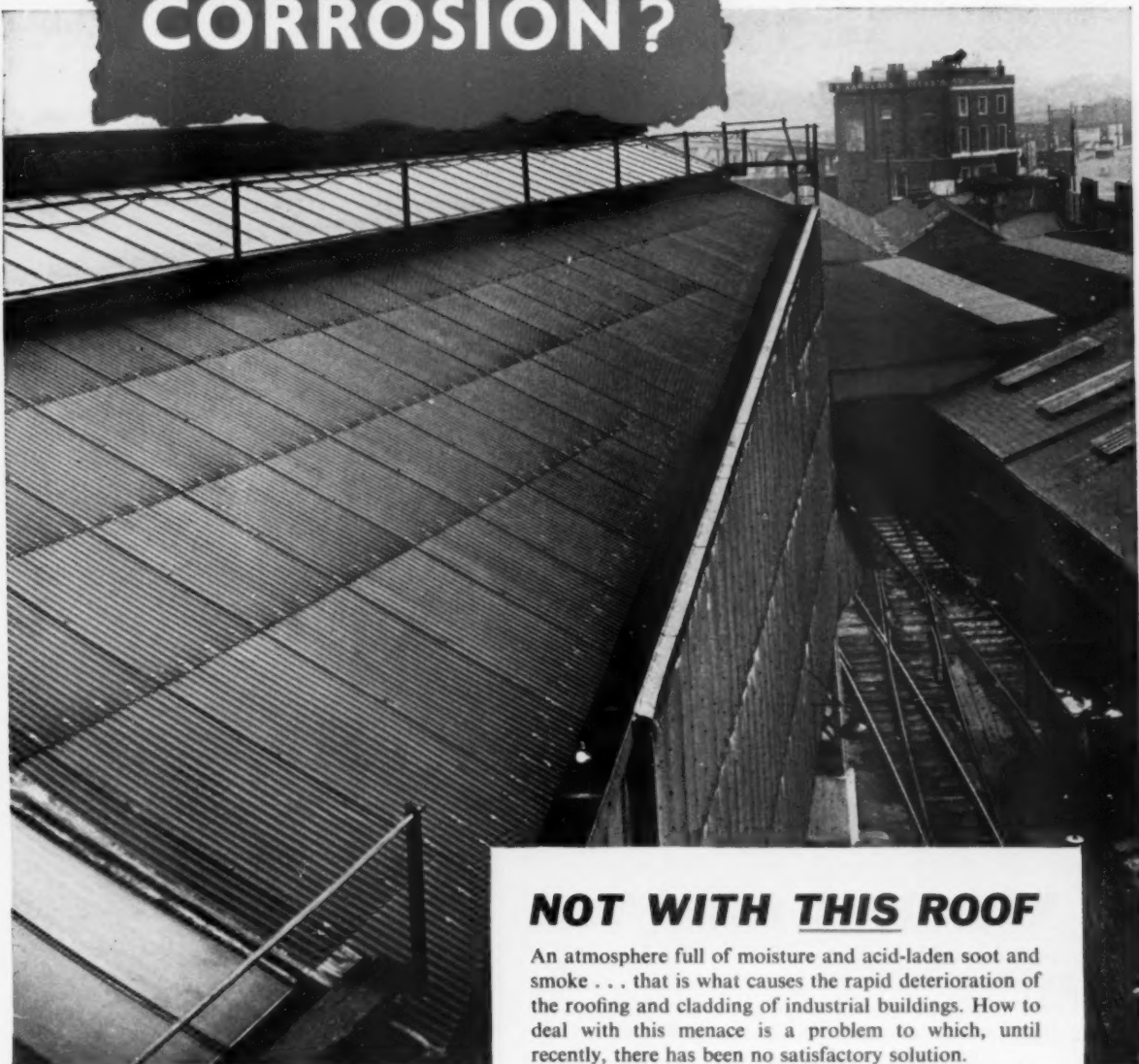
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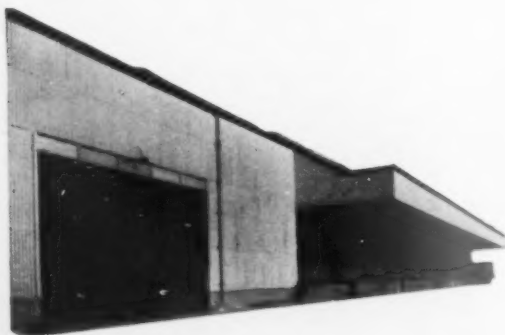
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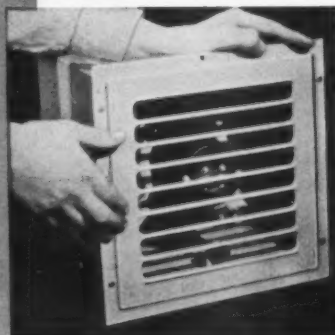
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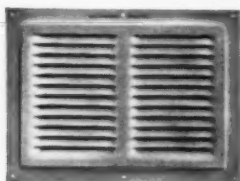
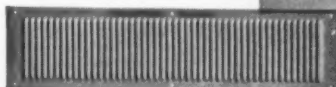
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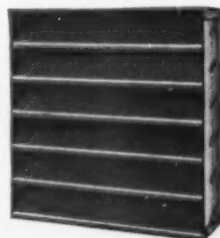


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## books on the spot

A MINOR but somewhat intractable problem in architectural education is the supply of technical books. Lectures, however well prepared, can only be a basic guide to a subject and a student will do much of his fact-absorbing and thinking with the aid of books and periodicals. Even a barebones book list will include several dozen volumes and it is very desirable that students should have at least a nodding acquaintance with many dozens more.

True, there are the public libraries which go to an immense amount of trouble to search around for particular books; but this takes time. And there is the RIBA library for the few who are near enough to Portland Place to benefit by its proximity.

School libraries vary greatly in their resources. The best can only meet a fraction of the demand for loan copies and this is not only frustrating for the student but, more serious, may result in a chronic state of fact-starvation from which many of them must suffer.

The RIBA earlier this year reorganized its committee structure on architectural education to form the new board of architectural education, the visiting board and the advisory council. The visiting board will not only examine and assess the work of schools but it is hoped that it will encourage experiment in architectural education and see that the student has the right background for his studies. No doubt, the needs of architectural school libraries and other cultural resources will have the visiting board's attention.

As far as new books are concerned, there is clearly a case for multiple buying of the more useful books for the architectural schools as a whole, which would allow for a generous loan service. There might be some books, suitable for special school editions or for photo reprints at very reduced prices. With old out-of-print books, a greater use of microfilms would help to solve the problem of supply, provided that adequate viewing arrangements were made available to the students.

The lack of sufficient and readily available technical literature is common to all branches of study in this country and not just architecture. It is worth remembering that at the recent annual conference of librarians one of the talking points was that the Russian progress in technological fields was ascribed, in part, to their lavish dissemination of information gathered from all over the world, translated and made available to those who needed it.

### Living high

Having written about looking down on things in Holland only two weeks ago, I found myself looking down on London last week in particularly agreeable conditions. Frederick MacManus and his Associates have just completed the central block of flats in a very large scheme for St. Pancras Borough Council, just off Albany Street. To celebrate the occasion, they gave a party in the four flats on the 17th floor. The party was thus a combination of a house-warming for four unknown tenants and 'topping out'.

The guests included the Mayor of St. Pancras, suitably supported by councillors, the Press and personal friends with many distinguished architects among them. The scheme is a large one and it will be some years before it is completed. It is, however, already possible to see the general pattern of the layout and to appreciate the admirable architecture. Several low and medium-height blocks are already in occupation, as are many of the flats in the high block. I spoke to one of the new tenants who appeared to be quite enraptured with her new home, but not with the crowds of children continuously using the lift and banging the staircase doors night and day. This apparently is a real problem. It is a pity that the concierge is unknown in this country. Perhaps the borough council would consider importing a few of the more terrifying kind from Paris.

The flats are well-planned and have a spacious air. Complete central heating is provided from convector units and all windows are weather stripped. Door and window furniture is well-designed and composition floors are used throughout. All bathrooms and w.c.'s are internal. The view is splendid, particularly where it includes Regents Park. The rents are splendid too. I am told that it is 50 shillings a week per flat, but perhaps one should not mention rents in St. Pancras just now.

I wonder how long we shall have to wait before someone puts a first-class restaurant on top of one of our high buildings. There is money to be made here.

### Hurst Park housing

I never go to the races and I am not interested in horses or bookmakers, but I am sorry to think that the Sport of Kings (see news, page 421) is likely to be driven from Hurst Park and replaced by private housing development. I would not mind half as much if the LCC were doing it. This is not because I prefer subsidized housing, but merely because I feel sure that they would make a better job of it. If the area were to be developed by an organization employing the best planning and architectural brains, I would be prepared to let it go as an open space—with adequate recreational areas preserved. It is the feeling that the proposed scheme will be at best mediocre which makes me such an ardent preserver of horse-racing.

From a purely selfish point of view I would like to see a really first-class private scheme so that I could live there myself. Meanwhile sirs, hands off the bloodstock!

### Building matters

The BBC Network Three programme on building has started again, at 7.30 p.m. on Tuesdays. Several changes have been made since last year. I think that they are improvements, too. The noises-off have been suppressed and the programme is now treated as half-an-hour of talk by a team consisting of an architect, Edward Mills, an engineer, Harry Kaylor, a builder, Ken Pearce and a quantity surveyor, Andrew Roberts, with Charles Crichton (builder) in the chair. The first programme was inevitably devoted to the building team and was quite well done, but a little elementary, I thought, for the building industry.

It did, however, serve to establish the voices, which were well chosen, and has set the pattern of men talking in an informal atmosphere. The second programme, on Building Maintenance, was much better and one felt that the team was settling down. In the first programme the voices tended to be rather tired towards the end, but this had been corrected in the second one.

Since each programme only deals with one subject less ground will be covered in the series as a whole, but, it will also mean that each subject will be given a decent hearing. Last year, with maximum of eight minutes for any one thing, the programme became highly indigestible.

### TV for 'kibitzers'

Taylor Woodrow Ltd. claim to have introduced the building site viewing platform to this country and their claim may easily be true. There can be no question, however, about their being the first firm to introduce closed-circuit TV for those who like to watch men at work. Now the 'kibitzers' can watch in comfort and under cover. One almost expects to find them seated; no doubt that will come. In this particular installation, on a site in the City, the viewer is also the cameraman, for a device has been provided which enables the camera to be controlled by the viewer. He can, by operating a lever, search the site for interesting goings-on. As no sound is provided and no telephoto lens, he is, alas, unable as yet to obtain close-ups of some of the language.

### RIBA ball

The RIBA is holding a Ball at Portland Place on Friday, October 28, from 9 till 2. Tickets are 25s each. This is an evening for members and is one of the first entertainments to be fixed by the recently formed Social Committee. There will be two bands and three bars; an architectural quiz set by Dr. Banham (bring your Banister Fletchers) and a continuous showing of films by Charles Eames. From the way his films get plugged at architectural functions anyone would think he was the only producer of *avant garde* and intellectual documentaries. Perhaps he is.

The Ball is not in aid of anything except your entertainment, but if you want to sit down during the evening I advise you to book a table. This can be done for parties of eight.

### The repair of ancient buildings

The SPAB announces its annual course on the repair of ancient buildings. It will be held at the offices of the society, 55 Great Ormond Street, WC1, from October 10 to 15, and is intended primarily for architects, surveyors, clerks-of-works and builders, although anyone particularly interested in the maintenance of old buildings will be welcome.

The course has been held annually since 1951 and more than 200 architects have attended. The maintenance of old buildings is a specialized job and it is very much to be hoped that those having old buildings in their care will take advantage of the course by attending themselves if they have not already done so, and by sending members of their staffs.

### Professor Clifford Holliday

Although Professor Holliday, who died suddenly last week, had a varied career, including many years of active architectural and planning service in Palestine, Ceylon and Gibraltar, he is likely to be remembered best for his work as architect and planner of Stevenage in its early years of



development. Since 1952 he had been Professor of Town and Country Planning in the University of Manchester. He was 62.

He graduated at Liverpool School of Architecture and went to Palestine in 1922, first as civic adviser to the city of Jerusalem and then as town planning adviser to the Palestine Government. At Jerusalem he was responsible for the conservation of the city walls and gates and the Church of the Holy Sepulchre.

In 1938, as a member of the firm of Holliday, Medwin and Winston, he won an international prize for his design of a satellite town at Kincorth, near Aberdeen.

### No Rome Scholarship award

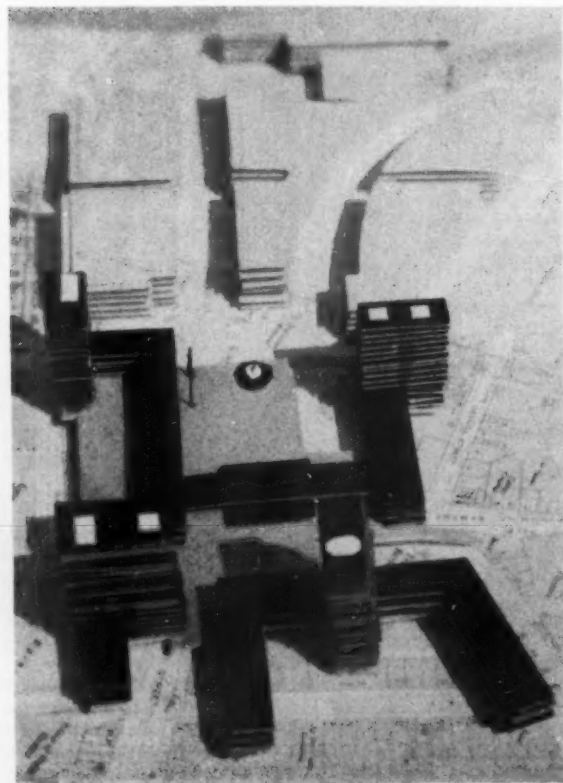
The Faculty of Architecture of the British School at Rome have announced that, of the eight designs submitted in competition this year, none reaches the standard to justify the award of the scholarship, which is the highest student-ship award of the architectural profession.

The Faculty states that the designs were of varying merit in planning and in visual expression, but the basic fault lay in the lack of careful analysis of the subject set (a university library) and of research into its requirements; the result was failure in logical and suitable planning.

Few designs, too, showed appreciation of quality presentation, nor in the main did they have sufficient clarity to make the full intention of the designer apparent. Simple rendering only was asked for; this should not only have saved time and labour in presentation, but should have made for clarity and concise statement.

I have not seen the designs and therefore cannot comment on the Faculty's decision, but these remarks are interesting in the light of the discussion on education taking place in A & BN.

**ABNER**



### Architectural education

Sir,—Those of your readers who follow the subject of architectural education will know that I have collected the views of a representative selection of architects and I am pleased to be able to say that a summary of that investigation is to be published in the next *RIBA Journal*.

Because of this, I was most interested in your issue of September 14, both regarding your leader comments on 'Technicians' and the views of Mr. G. Grenfell Baines. Because I have been critical of the Oxford Conference, it is pleasant to be able to support much of the thoughtful comment made by Mr. Baines and I hope the Board and every teacher in schools of architecture will digest his remarks very carefully.

On the intake question, Mr. Baines seems to favour two 'A' levels more than I do, but we do agree that they are 'no guarantee of future quality', and the only proviso needed in this matter is that there is a loophole for the potential architect who leaves school at 16 or 17.

The kind of education is a vital aspect and Mr. Baines gives some excellent pointers. We are beginning to know that a good artist is not necessarily a good architect, and that a good drawing is not necessarily a good design. Some of your readers might understand the phrase that 'bull is no substitute for brains' and believe, as I do, that slick and spectacular draughtsmanship and design is bringing the profession into disrepute. The architect's 'art' should be seen in the completed building and not on paper.

Mr. Grenfell Baines gave suggested avenues of study for the student and these seem to coincide with the desire for a more practical approach arising as a very definite conclusion from my ballot. They might be summarized into: construction, maintenance; comfort; economics; physical properties; limitations of tools and workmen; clear instructions. Not until these can be applied should the student be allowed to dabble in design.

Having thus supported Mr. Baines, I regret that I found your leader about the 'floating technician' to be quite frightening. Surely an architect must have an intelligent understanding of all the parts of a building, and if, as you say, the industry is 'beyond the power of one man to master', then there cannot be any architects. The creation of categories of architect has all the seeds of disaster and there is a comic element when we think of the words 'full architect' on the letter paper of the exalted few (this was the term used in your leader). Those who have had anything to do with the plans committees of local authorities will know that much of our work is already being done by builder plus architectural technician, and the average architect in private practice will surely suffer if the RIBA pursues its present policies.

Yours, etc.,

EWART B. REDFERN.

### Architecture in school

Sir,—John Smith is to be congratulated on his interesting and thoughtful comment on students' work at the Polytechnic, the AA and the Bristol schools. He rightly praises the emphasis which the Bristol school puts on participation in the affairs of the city, fulfilling an important cultural function in the community, 'in sharp contrast with the

*A model of one of the schemes for Piccadilly Circus—looking from Leicester Square towards Piccadilly—produced by D. J. Hopewell and P. R. King, students of the Department of Architecture, Kingston School of Art (see Architecture in school)*

London schools, who operate quite separately and seemingly in a cultural vacuum'. He goes on to ask if any London school attempted to tackle the Piccadilly problem at the time of the inquiry.

I write in defence of Kingston. Readers of Mr. Smith's article may find our experience at Kingston interesting (or is Kingston a London school?). While the inquiry was still going on, we set the problem of the Circus to our fifth- and sixth-year evening students, as a civic design *esquisse*. Not only did the students welcome the opportunity of tackling a topical problem of such importance and interest, but they worked like blacks and produced at least two solutions worthy of the attention of Jack Cotton, Walter Gropius, Sir William Holford, the LCC, or any other interested party.

I enclose a photograph of a model of one of these schemes, looking from Leicester Square towards Piccadilly and Regent Street. Students' names: D. J. Hopewell and P. R. King.

Yours, etc.

NOEL MOFFETT,

Senior Lecturer, Department of Architecture,  
Kingston School of Art.

### The BASA conference

Sir,—Your report on my paper at the BASA conference rightly describes my suggestions for the technical training of architects as academic, but presents my reasons in a somewhat misleading manner.

I suggested that if we reduce the range of study and concentrated on doing modest programmes well, the results might be better. Diffuse concepts which suggest that the architect is in control of total environment or that he is in command of the machine, are delightfully invigorating, but far from the reality of the profession's situation. We are not held in such esteem by society.

In technical training, the weakness of pinning one's hopes on, say, universal mechanization is that it excludes, *per se*, the study of so many things; so many traditional methods which the student will have to resolve when he graduates.

Finally, you must allow me to take a critical attitude towards mechanization without being dubbed as anti-mechanistic.

Yours, etc.,

JAMES GOWAN.

### A & BN format

Sir,—The simplicity and clear distinctiveness of the old A & BN cover has served the magazine well, it seems, for a long time, and it must therefore have been a courageous decision to declare that a change should be made, and to determine what the change should be.

I have refrained from immediate comment until I had seen a number of the new covers and could better appreciate the change from 'repetition' to 'continuity'. These are now spread out before me and, when viewed collectively, there is no doubt that the change is welcome in 'effect', though I would like to suggest that some further thought be given to certain details.

For instance, the date-line details confuse with the contents list as in No. 33, but absent in No. 34. This was better arranged, with no possibility of confusion, in the previous format. The size of the name may be a little mean as a headpiece, although the reason for this is evident when the magazines are stacked (as in a dentist's waiting room) and, further, the association between the major sans-serif letters and the letters giving information does not seem to me to be any advance upon the typography replaced. The cutting of illustrations by colour may prove to be a change of purely momentary value containing many compositional problems.

The internal changes, on the other hand, represent a general improvement, the editorial page being particularly successful, and the positioning of the headings towards the

outer edges of pages is of the greatest assistance when these are extracted and filed.

Now that changes are under way, may I urge that the whole matter of filing and recording be examined yet again, so that these steps toward the simplicity of reference are accompanied by a consistent grouping of the contents, such as in No. 34, where the Liverpool Cathedral winning designs and the Boissevian and Osmond portfolio emerge as complete 'folders'. Above all, the ease of filing depends upon the careful selection of the method of binding.

It may also be time to consider the advantage of this size page and the relationship between magazines. I find that the new and commendable *Traffic Engineering and Control* is almost identical with the A & BN, except for being  $\frac{1}{4}$  in wider; a trifle in the hand, but a curse in the file.

The resources of Dorset House are such that it might not be too much to expect the establishment of a standard size for technical magazines to emerge, under the leadership of the A & BN.

Meanwhile, congratulations upon the urge to make changes, upon those already made, and encouragement to continue.

Yours, etc.,

PATRICK HORSBRUGH.

★

Sir,—I think your 'new look' is a vast improvement. The cover looks very attractive and the standard of reproduction of your illustrations seems much crisper than on the old paper.

Yours, etc.,

GEOFFREY KELLY.



Remember the little building on the Albert Embankment which was left between the Dock Labour Board offices, by Frederick Gibberd, and the office block by T. P. Bennett & Sons? It has now been replaced by this nine-storey block of offices for Cementation Ltd. designed by Frederick Gibberd

### Commonwealth conference proposals

A recommendation to establish a permanent advisory and consultative conference to be held every few years and to have as one of its main aims the reciprocal recognition of architectural qualifications was made by representatives of Commonwealth architectural societies and institutes meeting at the RIBA from September 19-23.

This and other recommendations will be referred back for further study by the Commonwealth societies and institutes. If they agree, an inaugural conference will be held in London, probably in September, 1962.

Twenty-one representatives or members of architectural societies in 15 countries attended the conference. Professor Sir William Holford, president of the RIBA, was chairman, and Mr. N. L. Hanson (Institute of South African Architects) vice-chairman. Other members were: Kamal K. Anand (Indian Institute of Architects); C. H. R. Bailey (Federation of Malaya Society of Architects); G. Bradley (Institute of Northern Rhodesian Architects); A. Chitty (United Kingdom); G. C. Dovey (Hong Kong Society of Architects); Nelson Foley (Jamaican Society of Architects); E. Maxwell Fry (U.K.); W. T. Haslam (Royal Australian Institute of Architects); Dr. O. Koenigsberger (Indian Institute of Architects); Professor Fred Lasserre (Royal Architectural Institute of Canada); Alister MacDonald (U.K.); Professor Robert H. Matthew (U.K.); Edward D. Mills (U.K.); J. R. H. Thurston (Ghana Society of Architects); R. H. Uren (New Zealand Institute of Architects); W. Whitfield (Institute of Architects in Pakistan); J. A. R. Wilson (Institute of Southern Rhodesian Architects); W. W. Wood (Institute of South West African Architects); E. J. Young (Society of Professional Architects in Nigeria).

Other main points on which the conference reached agreement were as follows.

That since not all Registration Acts operate equally satisfactorily, a model set of clauses should be prepared by an advisory body for the guidance of developing countries seeking to establish registration; these might include an acceptable definition of 'architect', possibly based on the IUA's Charter on the rights and duties of an architect.

That the ultimate objective being complete reciprocity of registration throughout the Commonwealth, the only desirable criterion should be that of educational standards.

That where further conditions are imposed, the device of 'association' with an architect already registered in the country concerned is among the alternatives to be considered.

That protection of the title of architect is an essential step and in the older countries generally exists already.

That one of the functions of the Commonwealth conference should be to study methods of improving the flow of technical information between Commonwealth countries.

That a great influx of experienced teachers from established countries should be encouraged.

That it is unrealistic to transplant RIBA type examination systems, standards and curricula and expect them to take root at once in the often quite unsuitable soil of newly emerging nations; but that since some training, however modest, is better than none, courses should be started without delay.

That putting aside until later all questions of registration, reciprocity, recognition and even an identifiable 'qualification to practise', these courses should aim broadly at an intermediate standard of architectural training.

That the danger is realized of thereby diluting the profession with 'sub-professionals' just when the general wish is to raise standards, and that therefore—if necessary later rather than sooner—it may be wise to give point and purpose to such courses by gearing them into a full curriculum leading ultimately to RIBA final or equivalent.

### Hurst Park for houses, not horses?

Speaking at a public inquiry into the proposed development of Hurst Park racecourse—no longer needed for racing—Professor Joseph Allen, president of the Town Planning Institute, said such development would be in the public interest, could make a notable contribution to

housing and amenity of Greater London, and would relieve pressure on the green belt.

The inquiry was conducted by Mr. V. H. Loney, an inspector of the Ministry of Housing and Local Government, into an application by Hurst Park Club Syndicate and Wates Ltd. to provide 1,230 houses, a school, shops, car parks and a riverside walk for a new population of 3,690.

Professor Allen drew attention to the increasing pressure on building land and said it was necessary to make a careful assessment of all land within urban areas which might be developed. The growth of population, especially in the outer areas of London, aided by the motor car, had made development plans seriously out-of-date. If in 10 years' time there was at least one car for each family in Britain, there would be considerably less need for open space in residential areas, while the need for large open

*continued on page 424*

## diary

### This week

#### Ministry of Works

(1) October 6. (2) October 12. (1) 7.15 p.m. (2) 7 p.m. 'Prevention of accidents in the building industry', J. A. Hayward, MBE. (1) At the Technical College (Old Building), Blackburn. (2) At the Angel Hotel, Cardiff.

#### The Institute of Builders

October 7, 6.30 p.m. Inaugural meeting of the first branch of the Institute, the Midlands Branch. At the Grand Hotel, Birmingham.

#### Society for the Protection of Ancient Buildings

October 10-15. Course on 'The repair of ancient buildings'. At 55 Great Ormond Street, W.C.1.

#### Royal Society of Health

October 12 at 2.30 p.m. Discussion on 'Minimum housing standards'. At 90 Buckingham Palace Road, S.W.1.

#### Victoria and Albert Museum

October 12 at 6.15 p.m. 'Works of art as evidence for the historian of science', F. Greenaway, of the Science Museum. In the Museum Lecture Theatre.

### Coming events

#### Architects' Christian Union

October 13, 7-8 p.m. Reception in the Henry Jarvis Hall of the Royal Institute of British Architects.

#### Church Information Office

October 19-November 12. Exhibition of new training college buildings. At the Building Centre, Store Street, W.C.1.

#### London County Council

October 26, 6.45 p.m. The first of four discussions on 'Tall buildings'. At the Brixton School of Building.

### Competitions reminder

Borough of Wokingham, Berkshire (Municipal Offices). Last day for submitting designs: October 17 (see A & BN, June 1).

Exhibition Stand (1961 Building Trades Exhibition, Olympia). Closing date for entries: October 22 (see news, A & BN, July 13).

The Star Competition (redevelopment of Piccadilly Circus). Closing date: December 19 (see news, A & BN, August 24).



THE designs prepared by Sir Leslie Martin, working in association with Mr. Colin St. J. Wilson, for the Manor Road Site in Oxford which have been approved by the Royal Fine Art Commission and are now on view in the Sheldonian Theatre, comprise the new Law Library, English Faculty Library and Institute of Statistics. The buildings, on which work will start during 1961, will cost between £500,000 and £600,000.

In 1957 the Rockefeller Foundation, which had previously made a grant to enable members of a committee set up by the Hebdomadal Council to visit law libraries in the United States, offered a further grant of £150,000 towards the cost of a new Law Library, provided that, by June 30, 1960, the university had secured the balance necessary to proceed with a building on the scale and with the facilities recommended by the committee. Shortly afterwards, the Calouste Gulbenkian Foundation offered £22,000 to the university to provide a large lecture room which would be associated with the Law Library. Since then, the university has announced the offer of grants from the Government of Pakistan, the Pilgrim Trust, the Trustees of Henry and Clara Oppenheimer, the Inns of Court and the Law Society. The university also has the assurance of a grant from the University Grants Committee which will enable it to go ahead with the scheme.

#### The buildings described

The development of the site will bring together into one composite group of buildings the Law Library, the English Faculty Library and a building for the Institute of Statistics, all of which share certain common facilities (such as lecture theatres) at the centre of the complex. The site itself is at the junction of Manor Road and St. Cross Road and it is from these roads that it will be approached.

This linking of three buildings into one composite whole has led to the possibility of creating an impressive group. The individual buildings differ considerably in size, but have one feature in common—each possesses a reading room which is square in plan and connects directly to an open stack by which it is enclosed on two sides. The linking together of buildings of different height and bulk has led to an arrangement in which the three buildings are grouped around a broad flight of steps leading to their entrances.

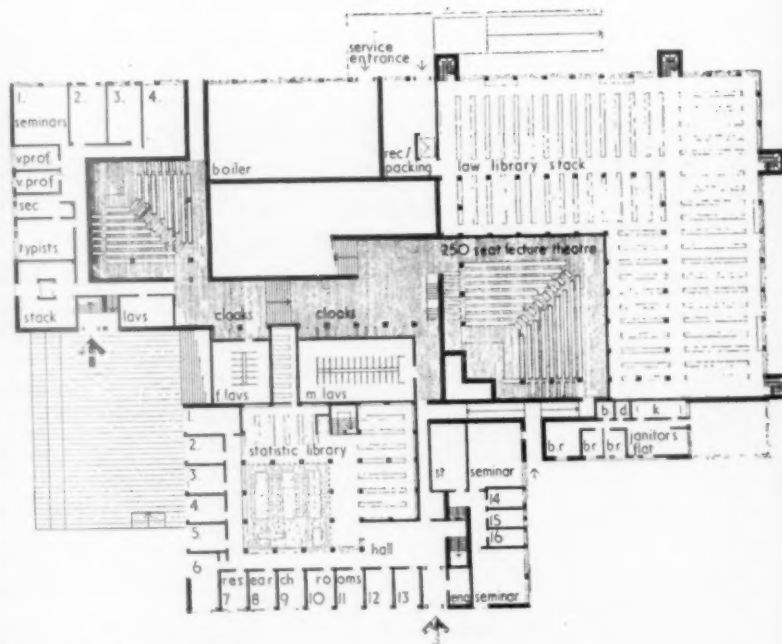
The buildings rising to different heights form an enclosure around this main staircase and its terraces. Within this composite group each Faculty Building is separately identified by its entrance and by its Reading Room, which is top lit from a ceiling that rises above the stack space by which it is surrounded to form a tower. Each building has its own independent access and its

*The separate entrance to the Institute of Statistics is at lower ground level, Manor Road side on the right of the model (picture opposite). On the St. Cross Road frontage (the foreground of the model picture) the ascending flight of steps leads to the English Library at first landing, to the main lecture rooms and shared accommodation in the next level (upper ground) and finally, at the main courtyard (terrace) level, to the Law Library itself*



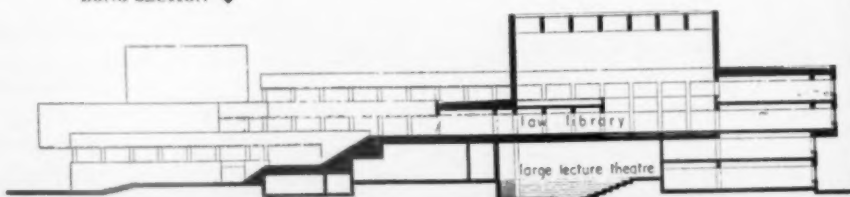
UPPER GROUND LEVEL ▲

SCALE: 1IN = 64FT



LOWER GROUND LEVEL ▲

LONG SECTION ▼





plan is arranged so that it is completely self-contained. But the buildings are so planned within the group that they can share the central core of lecture room accommodation, common rooms, cloak-rooms, etc.

The general plan of the group of buildings can therefore be thought of as three related squares (the reading rooms) entered at different levels from the landings and terraces served by the main approach stair and surrounded by ancillary accommodation. Two of these squares (Law and English) are connected by a wing: this connection provides an extension to the Law stack and contains the shared accommodation at its lower levels. The Common Rooms are at an upper level of this connecting link, and open onto the main terrace. Below this, the entrance hall to the shared accommodation links the faculty buildings together and serves a suite of lecture halls so that these can be used independently or shared by the faculties.

It is proposed that the whole of the exterior of the building and its terraces will be finished in a light grey brick. The window divisions, heads and cills which form continuous bands around the building are made of black anodised aluminium.

#### The Law Library

The tables, which seat 166 (Undergraduate) readers, are arranged in an L-shaped form to provide ease of movement from the table area to the open book stack which follows the L-shaped form of the table arrangement and is in turn enclosed by a line of carrels. The stack therefore lies between the readers in the main Reading Room and those in the carrels (Post-graduate and Research) and is equally accessible.

Total accommodation for books is 456,000, 206,000 at Reading Room and Gallery level and 250,000 in the lower level stacks. Some 286 readers can be accommodated in the Reading Room and the two levels of carrels associated with this. A further 36 can be seated in the extension stack and another 30 in the stack rooms below. This makes a grand total of 352 readers.

#### The English Library

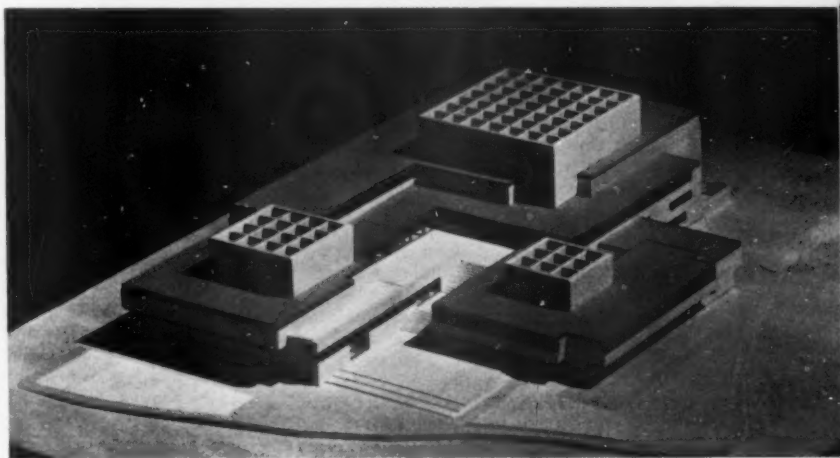
The main Reading Room to this library is about 44ft square with a book stack on two sides of this. The arrangement allows a movement from the entrance to the stack without disturbing readers. A gallery over the stack makes it possible to accommodate 84,000 books and 150 readers. A further 10,000 books can be placed in the closed stack below the Reading Room and at ground-floor level.

#### The Institute of Statistics

This building also has its square Reading Room and gallery, but the arrangement of readers in relation to the stack is changed so that it relates to the special needs of the Institute. A considerable amount of accommodation for the Institute takes the form of Research Rooms.

#### Shared accommodation

This forms an important and self-contained suite linking the three Faculty Buildings. A separate entrance with a Porter's Office from the main approach steps leads to a spacious entrance hall about 90ft long by 40ft wide. This entrance hall provides cloakroom accommodation for the three faculties, and from its various levels two smaller lecture rooms (for 60 people) and two large lecture rooms are approached. In addition, there are two lecture theatres, one 250 and another seating 150 people.



GALLERY LEVEL ▼



TERRACE LEVEL ▼



spaces, especially in the green belt, would become paramount.

Asked whether he thought the building of 1,230 dwellings at a density of 40 to the acre would be wise development, he said: 'The question of the number and density is a matter which the Minister can decide consistent with his general policy in the Greater London area'.

When it was suggested that his statement that the proposed development could make a notable contribution to amenity was 'anti-social in character, a gross exaggeration and not true', he replied: 'If you are to take the view that one must never build on open land we would never have had London at all. Building does not necessarily destroy beauty'.

During the inquiry women members of the Molesey Society paraded outside the hall with a banner saying: 'No horseplay with Hurst Park'.

Opposing the application, Mr. A. N. Mundy, senior assistant solicitor, Surrey County Council, said the Hurst Park scheme would have far-reaching effects on services which were not geared to take this increase in population.

'We were a little surprised at the suggestion by Professor Allen that in the long run there would be less open space needed because of people travelling into the countryside at weekends. We take the view that the reverse is the case. If you increase the density of population in residential areas it is more essential to preserve such areas for recreational purpose as far as is humanly possible.'

### Face-lift in Hampstead?

Leonard Manasseh, of Bacons Lane, Highgate, has been appointed by Hampstead Council as consultant architect for a scheme to give a face-lift to Hampstead High Street. The scheme, which would be carried out by the Civic Trust on the lines of its highly successful experiment in Norwich, arose from a proposal made by the New Hampstead Society in January.

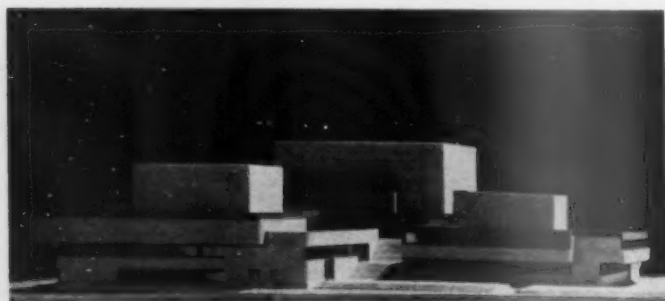
Implementation of the scheme will depend upon the response of traders. At neighbouring Hornsey a similar venture has had to be abandoned because traders were not willing to support it.

### Crawley New Town appointments

Mr. Henry Brooke, Minister of Housing and Local Government, has appointed Major B. H. Jones, Councillor Robert May, and Mr. James Macnabb as members of Crawley New Town Development Corporation.

Major Jones is a member of Crawley Urban District Council, and Mr. May is a member of the Urban District Council and of West Sussex County Council. Mr. Macnabb is a Fellow of the Institute of Housing and is Manager and Secretary of the Peabody Donation Fund.

*St. Cross Street view of the model of library buildings designed for Oxford University by Professor Sir Leslie Martin in association with Colin St. J. Wilson. Further details pages 422 and 423*



### Parking plan sought

More than 1,000 delegates from local authorities, police forces, private firms and other bodies will take part in a convention on car parking arranged by the Institution of Municipal Engineers at Central Hall, Westminster, tomorrow (Thursday).

Aim of the convention is to exchange views and experiences on the parking problem, and to seek practical ways of solving it. A large delegation from the Ministry of Transport will be there.

### Film studio plan rejected

An application to develop land at Sweet Hill, Brighton, as a film studio has been refused. Announcing this Mr. Henry Brooke, Minister of Housing and Local Government, says that 'the use of this large area of downland in the way proposed for outdoor filming, involving large numbers of people, would be inappropriate to this area of great landscape value'.

An application for outline planning permission for the proposal was made in November, 1959, by Sweet Hill Studios Limited. The Minister directed that the application be referred to him for decision and a public inquiry was held on May 11 this year. The inspector recommended that consent in principle be granted to the proposal, excluding a proposed heliport, subject to the condition that the permanent buildings be confined to a hollow and sited at such a level as to be below the immediately adjoining land.

The letter giving the Minister's decision says, 'The Minister has had regard to the inspector's views and recommendation. He considers however that, notwithstanding that the permanent buildings would not be obvious from most points in the immediate vicinity (though not from higher points further away to the east), the use of this large area of downland in the way proposed for outdoor filming, involving large numbers of people, would be inappropriate to this area of great landscape value. The Minister notes that it is said that some additional employment would be brought to Brighton, but he does not consider that the benefits which might accrue are sufficiently substantial, or sure, to outweigh the disadvantages of the proposal. While, therefore, the project might be acceptable in a more suitable place, he is satisfied that planning permission ought not to be given in respect of the application site'.

### Sir Charles Barry Exhibition

To mark the centenary of the death of Sir Charles Barry (1795-1860), the RIBA is presenting an exhibition of original drawings from the Library collection. Among the exhibits will be Barry's early travel sketch books, his drawings for the Travellers' and Reform Clubs, many early studies for the Houses of Parliament as well as designs for public buildings and country houses. A volume of drawings from Barry's office collected by Octavius Barrett, the brother of Elizabeth Barrett-Browning, and recently presented by his descendants will be exhibited for the first time. The Institute's collection is sufficiently extensive to show the most important aspects of Barry's most versatile career.

The exhibition will be on view in the Reception Room (1st floor, 66 Portland Place, London, W.1) from October 10-22. Monday-Friday 10-7; Saturdays 10-5.

### 1,400 objectors to LCC plan

A public inquiry into about 1,400 objections to proposed alterations and additions to the LCC's Development Plan opened at County Hall yesterday.

The plan was approved with some modifications by the Minister of Housing and Local Government in March, 1955. Four of his inspectors have been appointed to conduct the inquiry—Mr. J. G. Birkett, MTPI, Mr. G. J. Easterbrook, MIMUE, Mr. C. F. Allan, ARIBA, MTPI and Mr. C. D. J. Benton, MTPI. The council has instructed Mr. Ramsay Willis, QC, Mr. Harold Marnham, Mr. J. Stuart Daniel and Mr. K. F. Goodfellow as counsel to appear on its behalf.

The inquiry may take about three months.

## flats at Massagno, Italy

Peppo Brivio, architect  
Alessandro Rima, engineer

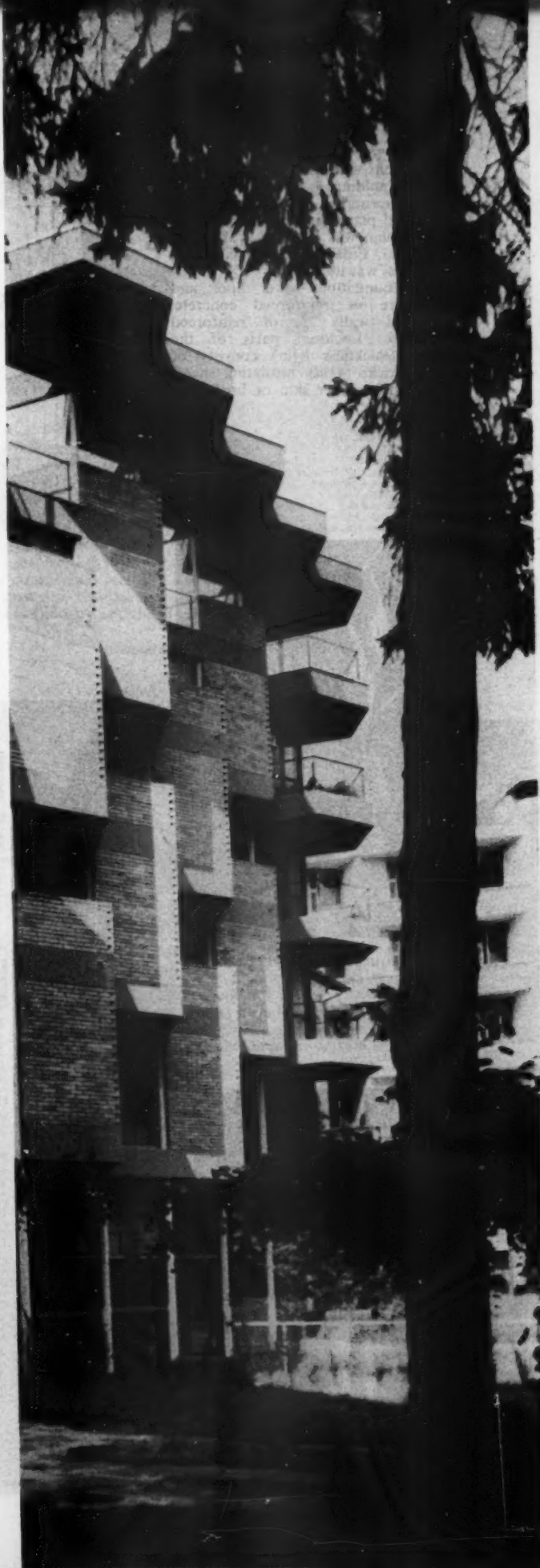
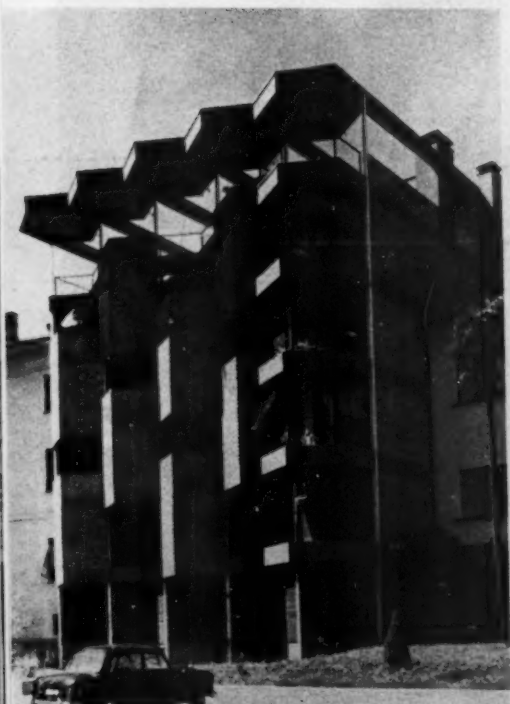
CATE House, Massagno, sited in a residential zone with multi-storey buildings, is a house with apartments for letting.

It is bounded on one side by buildings and a small courtyard, and towards the south-east by a main urban road, the via Tesserete. The shape of the site is irregular and between the road and the courtyard there is a difference in level of 19ft 6in.

There were many constructional limitations, caused by building regulations and by particular rights belonging to neighbours. A long series of

*continued on page 426*

*Elevation to the via Tesserete*

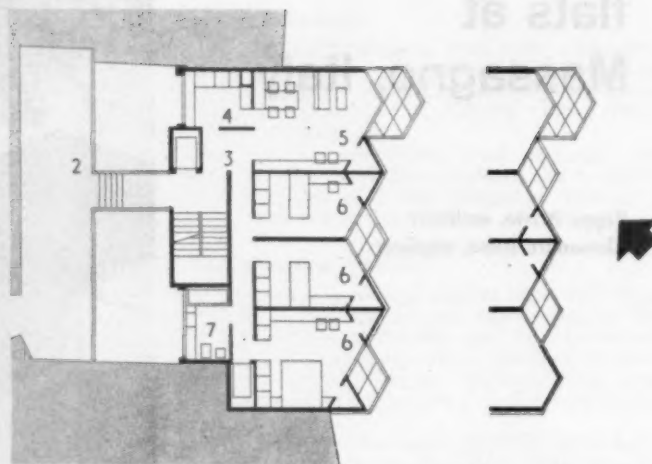




*continued from page 425*

negotiations with the owners of neighbouring buildings led to modifications and compromises in regard to the levels and plans. In the first place the general plan was octagonal, and then hexagonal. Finally a combination of both types was used.

The foundation, lower floor and attics are of reinforced concrete. Structural walls are of reinforced brickwork. Enclosed parts of the façade (thickness  $8\frac{1}{2}$  in) consists of facing bricks ( $4\frac{1}{2}$  in), insulating sheets (1 in) and an inner skin of brickwork (3 in).



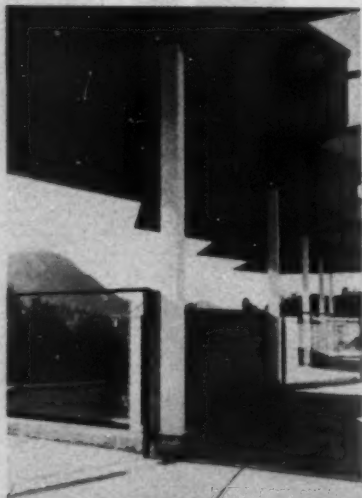
PLANS

KEY:

1. via Tesserete
2. Terrace
3. Entrance hall
4. Kitchen
5. Living room and dining room
6. Bedroom
7. Bathroom



*The plan arrangement on succeeding floors through the height of the building (see plans above) produces a highly modelled street façade. Below, a series of hexagonal roof panels provides partial shelter on the roof terrace and reflects the form of projecting balconies*

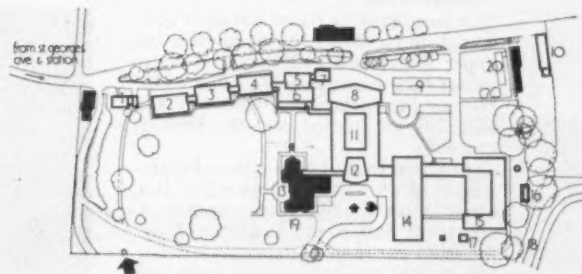




# college of food technology

The Architect & Building News, 5 October 1960 427

College Board of Governors, client  
Grenfell Baines and Hargreaves, architects  
Philip Titherley, job architect  
G. P. Youngman, landscape architect  
C. E. Ball and Partners, quantity surveyors  
Felix J. Samuely and Partners, structural engineers  
Rosser and Russell Ltd. service engineers  
Troughton and Young Ltd., electrical consultants



THE National College of Food Technology was established by the Ministry of Education in co-operation with the Food Industry to provide advanced technological education for industry. The college offers three post-graduate courses, a four-year Associateship Sandwich Course and a two-year Diploma Course in General Food Technology to young men and women leaving school and to students sponsored by industry.

The project had the approval of the

Ministry of Education and the buildings are situated on the site of a former mansion at Weybridge, Surrey. In giving their approval, the Ministry put a ceiling of £300,000 on its own contribution to the total cost and the remainder of the total cost is the responsibility of the Food Industry. The Ministry considered that the provision of special educational facilities for an industry should be a co-operative effort between that Industry and the Government.

continued on page 428

- Site plan key:
1. Warden's house. 2, 3, 4. Hostel.
  5. Kitchen. 6. Common room.
  7. Staff house. 8. Assembly hall.
  9. Car park. 10. Caretaker's and gardener's cottages. 11. Administration.
  12. Lecture theatre. 13. Netherfield house (library and common room).
  14. Laboratories. 15. Processing.
  16. Electricity sub-station. 17. Water tower. 18. Proposed new road.
  19. Future car park.

Top, the main entrance lecture theatre and laboratories. Under, the hostels



Photos: John Maltby



*continued from page 427*

A large existing house has been converted into a hostel for 20 students on upper floors and a library and committee rooms on the ground floor. The existing basement and outbuilding are used for oil storage and the heating chamber.

Attached to the house is the administration block of the college which is a single-storey building surrounding a courtyard. Staff rooms and offices form the main part and a lecture theatre for 150 people rises above the main entrance to the college. The lecture theatre has steeply-tiered seating and provision for projectors, demonstration kitchen, tasting booth and preparation room for experiments in the lecture theatre, the whole of which is heated and air conditioned.

The two-storey chemical laboratories connect by a link, containing constant temperature rooms and plant rooms, to the administration block and food processing block. Laboratories are equipped with research rooms, lecture rooms, staff rooms, and complete facilities for students and staff.

The process block is a single-storey building, 16ft high, and contains all the food processing equipment on the lines of a model food factory. This has special chemical-resistant tiled flooring and tiled walls with all the services running around its perimeter to allow a completely flexible arrangement for connecting up the various processing equipment. The core of this building has rooms for storage, engineering workshops, testing laboratories and other ancillary rooms.

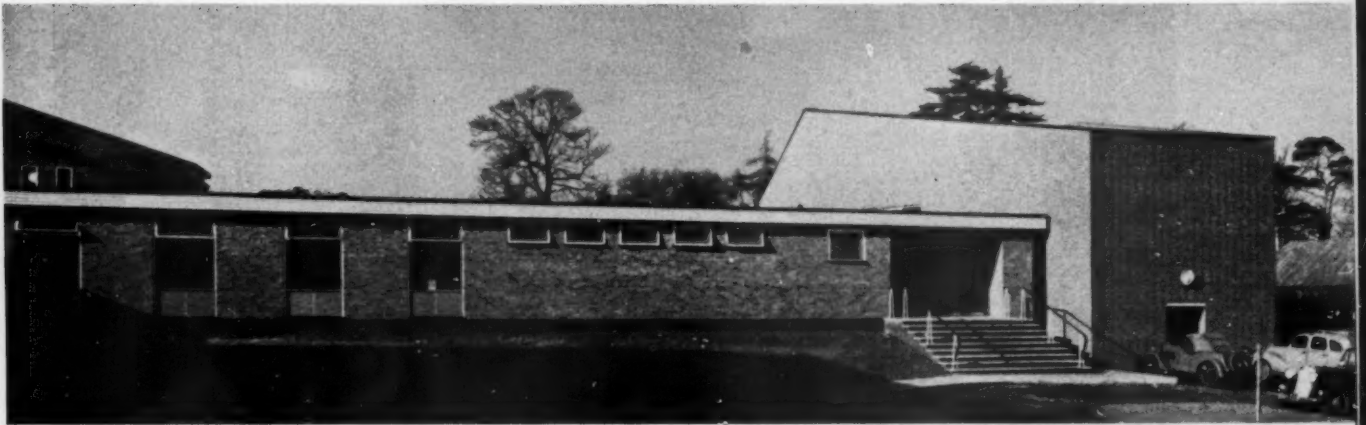
The remainder of the students are housed in a hostel containing 60 individual bed-studies. The hostel faces south overlooking the lawns of the college and is equipped with all the facilities necessary. Adjoining the hostel are the dining rooms and kitchens with common rooms above,

*continued on page 430*

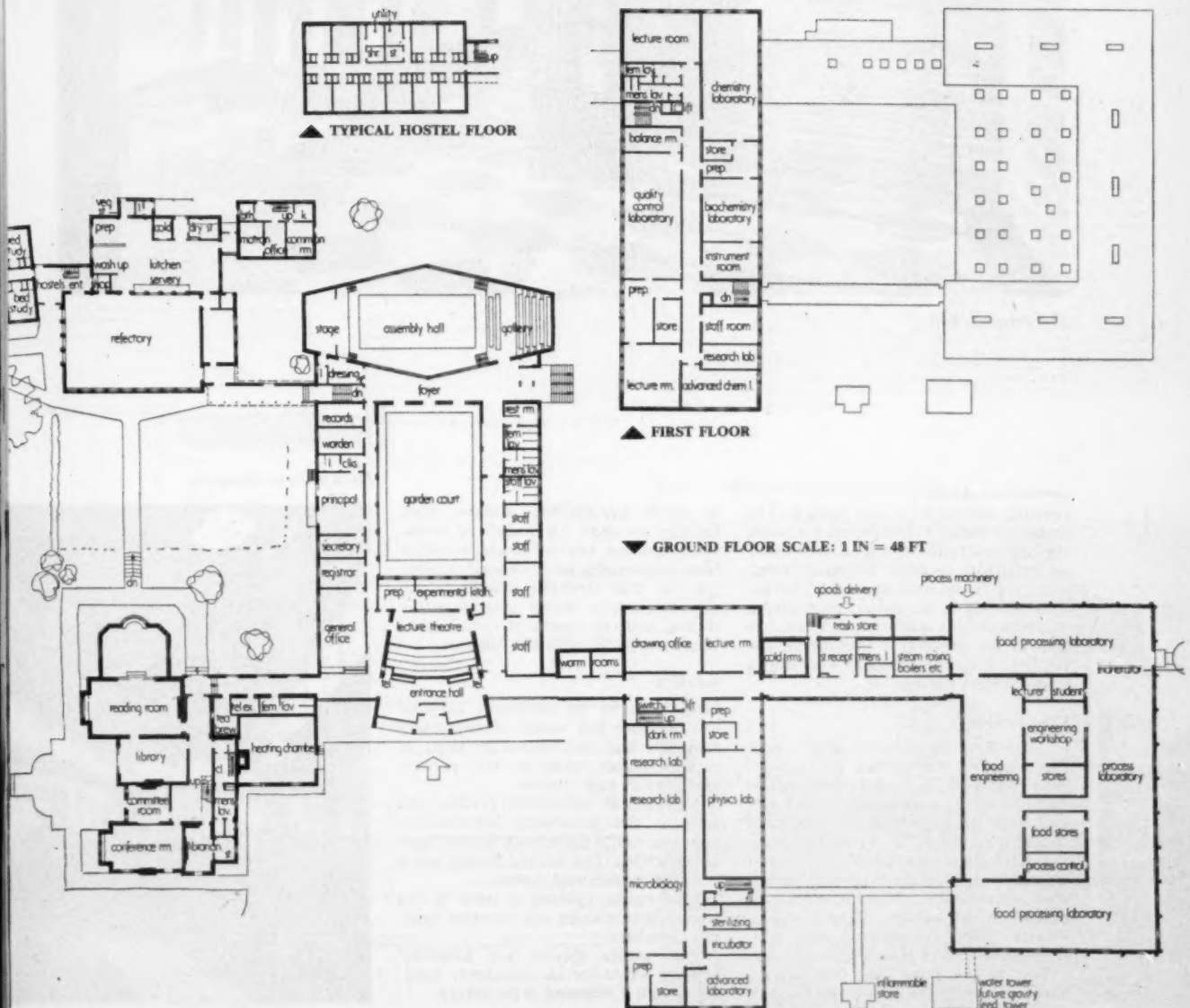


*Above one of the study-bedrooms. The hostel faces south overlooking the lawns, with the refectory and common rooms (see below) in the adjoining block. A further 20 students are accommodated in Netherfield House (see site plan) which also contains a library*





The administration block and assembly hall







*The entrance hall*

*continued from page 428*

opening out on to a roof terrace. The assembly hall for 350 people connects the administration block to the hostels and provides facilities for social functions and badminton and other recreations as well as the annual prize giving and speech day gatherings. There are also in the grounds a staff house for resident hostel and kitchen staff and a house for the warden.

#### **Construction**

Construction throughout, apart from the assembly hall which has a light steel frame, is in load bearing brick. The two-storey laboratories have floors and roof of a prestressed reinforced concrete inverted "T" beam construction, and the process block is of a composite prestressed concrete and timber roof construction. Other roofs are in timber construction. The lecture theatre roof is framed and self-supporting and of timber construction.

The bricks have been chosen to harmonize with the house and locality

as much as possible. Yellow stock facings are used for panels of brickwork and for heavier loads, a red or blue engineering brick is used according to the strength required. All windows are in timber and are either sliding sash or centre pivoted types according to the required function.

#### **Services**

Heating is by an automatic oil-fired low-pressure hot water system using radiators and fan convector units in certain places such as the process laboratories and refectory.

Mechanical ventilation systems are used in the processing laboratories, special areas of the science laboratories and kitchens. The lecture theatre has a fully air conditioned system.

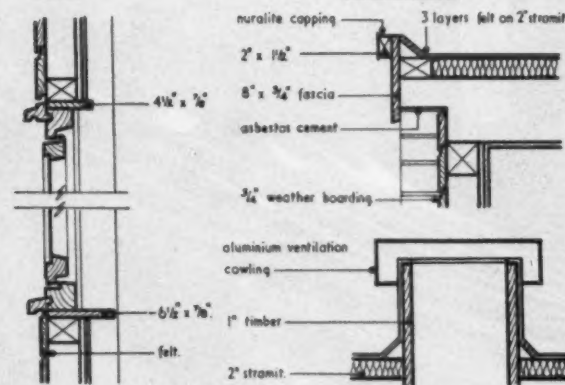
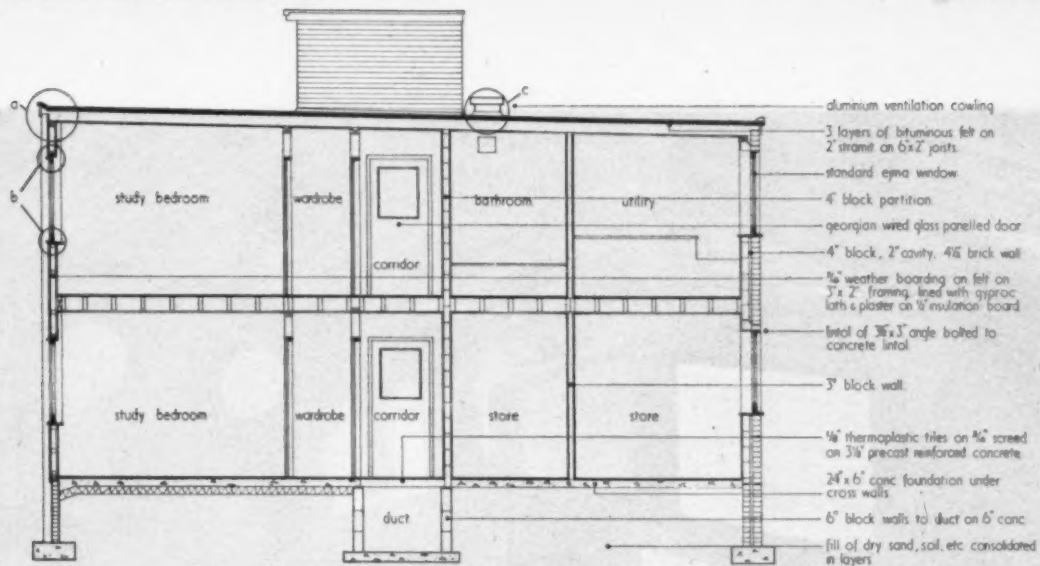
Fluorescent lighting is used in the science laboratories and tungsten lighting elsewhere.

The lecture theatre and assembly hall are wired for an emergency lighting system if required in the future.

*Food process laboratory*





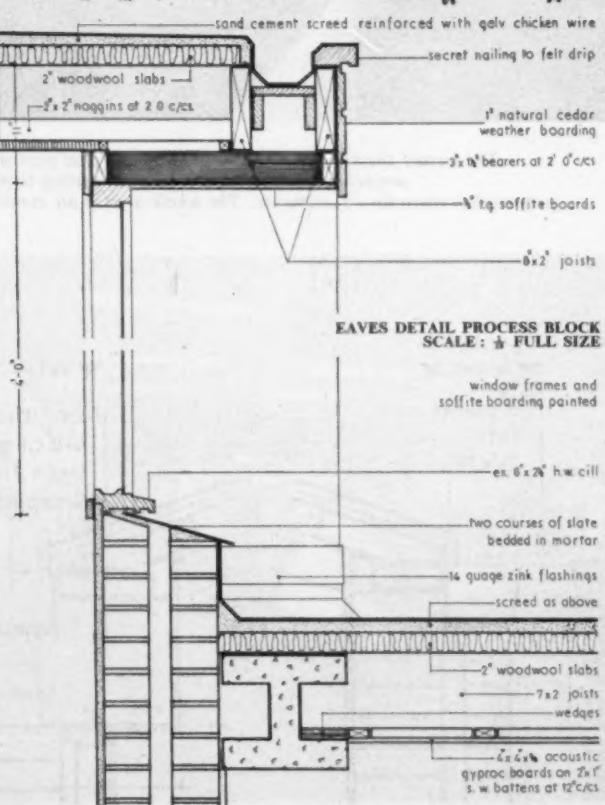


General Contractors: **JOHN LAING & SON LTD.**

Sub-contractors and suppliers:

Balustrading and Metalwork: Allen & Greaves Ltd. Blinds and Special Equipment: J. Avery & Co. Ltd. Cold Rooms: Lightfoot Engineering Co. Ltd. Constructional Steelwork: Constructional Units Ltd. Curtain Tracks: Parker, Winder & Achurch Ltd.; Watts & Corry Ltd. Cycle Stands: Le Bas Tube Co. Ltd. Decoration: Gee Brown. Electrical: W. H. Gaze & Sons Ltd. Floor and Wall Tiling: Wilson & Wylie Ltd. Flooring: Adamite Co. Ltd.; Marley Tile Co. Ltd.; Hollis Bros. Ltd.; Granwood Flooring Co. Ltd.; J. A. Hewatson & Co. Ltd.; Alan Milne (Flooring) Ltd. Furnishing Contractor: Swedish Modern. Furniture: Conran Ltd.; Cox & Co. Ltd.; Ercol Ltd.; E.S.A. Ltd.; L. M. Furniture Ltd.; Geo. M. Hammer Ltd.; Gordon Russell Ltd.; Heal's Fabrics; Hille of London; D. Meredith Ltd.; Parker Knoll Ltd.; Restall Ltd.; Vono Ltd. Glass Waste System: Q.V.F. Ltd. Glazing: Faulkner, Greene & Co. Ltd. Goods Lift: Etchells, Congdon & Muir Ltd. Handrails: Higginson Handrails Ltd. Heating and Ventilating: Rosser & Russell Ltd. Hose Reels: Mather & Platt Ltd. Incinerator: Heenan and Froude Ltd. Ironmongery: Childs Constantine Ltd. Kitchen Fittings: Benham & Sons Ltd.; Black & White (Accrington) Ltd.; Ward & Co. (Letters) Ltd. Laboratory Fittings: Sotos Ltd. Paints: I.C.I. Ltd. Plastering: Pollock Bros. (London) Ltd. Plumbing: Grocock & Day Ltd. Roofing: The General Asphalt Co. Sanitary Fittings: Standard Range & Foundry Co. Ltd.; Adamsz Ltd. Signs: Ward & Co. (Letters) Ltd.; Leslie Cant. Sliding Door Gear: P. C. Henderson Ltd. Special Floor Tiling: Ancorite Ltd. Steel Reinforcement: G. K. N. Reinforcements Ltd. Steel Shelving: Steel Equipment Co. Ltd. Suspended Ceilings: Phoenix Timber Co. Ltd. Terrazzo: Alan Milne (Flooring) Ltd. Wall Glazing: Cement Glaze Ltd. Wood Polishing: J. R. Beadon Ltd.

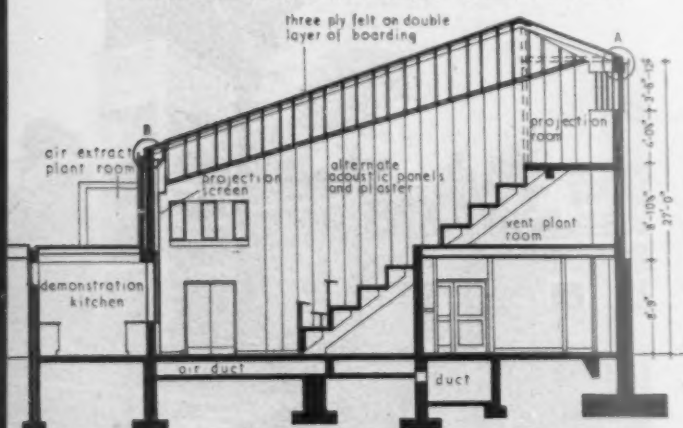
Process laboratory and water tower



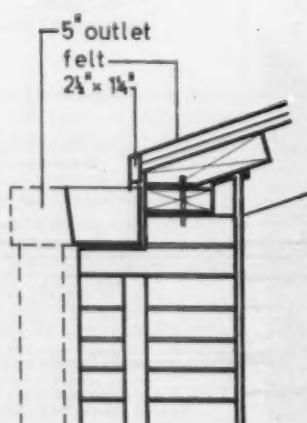


*The lecture theatre has steeply-tiered seating and provision for projectors, demonstration kitchen, tasting booth and preparation room for experiments. The whole area is air conditioned*

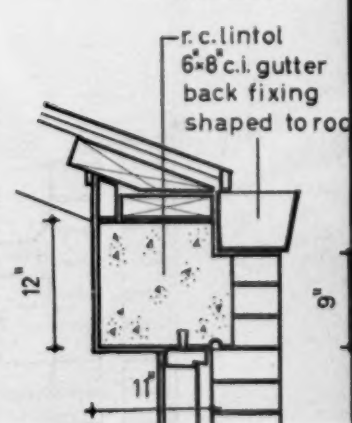
SECTION THROUGH LECTURE THEATRE SCALE: 1 IN = 16 FT

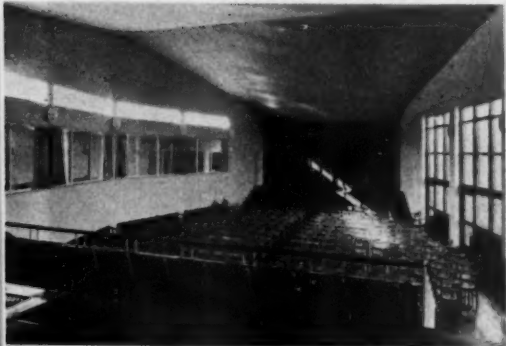


▼ DETAIL 'B'

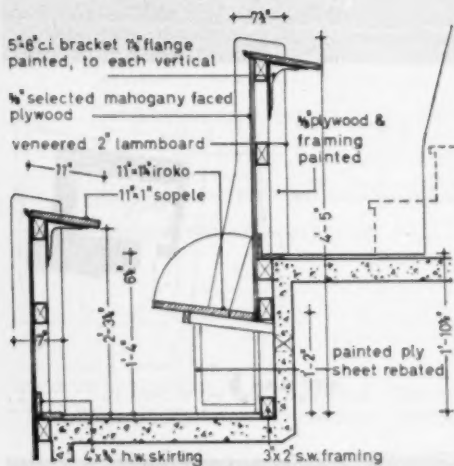


▼ DETAIL 'A'





The assembly hall



LECTURE THEATRE SEATING DETAIL ▲

## COST ANALYSIS OF CONTRACT PRICES

Tender date .. .. .	August 7, 1957
Work started .. .. .	January 7, 1958
Work completed .. .. .	October 1, 1959
Tender price accepted .. .. .	£246,037
Highest tender price .. .. .	£262,749
Lowest tender price .. .. .	£244,333
Superficial area of buildings .. .. .	54,900 ft super

	College buildings		Hostel buildings	
	Capital cost £	Cost per f.s. s. d.	Capital cost £	Cost per f.s. s. d.
Preliminaries and insurances .. .. .	18,673	9 5 1/2	4,002	6 6 1/2
Foundations .. .. .	17,850	9 0 1/2	2,116	3 5 1/2
Superstructure .. .. .				
Upper floor, stair and floor construction .. .. .	30,643	15 6	2,851	4 8
Roof lights .. .. .	818	5		
External walls and cladding .. .. .	13,814	7 0	1,881	3 1
Windows and external doors .. .. .	5,246	2 7 1/2	890	1 5 1/2
External glazing .. .. .	1,312	8	140	2 1/2
Finishes and Fittings .. .. .				
Internal partitions .. .. .	1,812	11	2,032	3 4
Internal doors and borrowed lights .. .. .	4,159	2 1 1/2	1,662	2 8 1/2
W.C. doors and partitions .. .. .	305	1 1/2		
Wall finishes .. .. .	5,080	2 6 1/2	1,634	2 8 1/2
Floor finishes and skirtings .. .. .	8,992	4 6 1/2	2,346	3 10
Ceiling finishes .. .. .	3,569	1 9 1/2	892	1 5 1/2
Decorations .. .. .	3,815	1 11 1/2	1,313	2 2
Laboratory fittings .. .. .	21,504	10 10 1/2		
Other fittings .. .. .	1,460	8 1/2	2,477	4 0 1/2
Services .. .. .				
External plumbing .. .. .	884	5 1/2	119	2 1/2
Sanitary fittings .. .. .	915	5 1/2	718	1 2
Internal plumbing .. .. .	1,081	6 1/2	695	1 1 1/2
Hot water .. .. .	2,016	1 0 1/2	1,678	2 9
Cold water .. .. .	3,740	1 10 1/2	1,150	1 10 1/2
Heating .. .. .	18,856	9 6 1/2	3,197	5 2 1/2
Ventilation installation .. .. .	4,018	2 0 1/2		
Electrical installation .. .. .	16,200	8 2 1/2	2,260	3 8 1/2
Gas installation .. .. .	851	5 1/2		
Drainage .. .. .	3,965	2 0	1,029	1 8 1/2
Refrigeration plant .. .. .	1,925	11 1/2		
Lift .. .. .	778	4 1/2		
Compressed air supply .. .. .	393	2 1/2		
Steam services to the process laboratory .. .. .	1,465	9		
Heating and hot water supply pipes from the boiler house to the hostels .. .. .			305	6

Total cost of job (excluding furniture. Including hostels added to contract) .. £284,000  
Total cost per ft super .. .. . 99s. 2 1/2d.

Chemistry and microbiology rooms

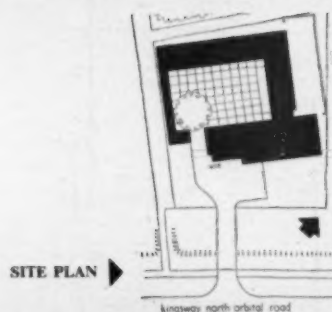






## police station at Watford

Hertfordshire County Council, clients  
 William Crabtree, in collaboration with G. C. Fardall,  
 Hertfordshire County Architect, architects  
 W. T. Jarosz, associate in charge  
 Hertfordshire Council, landscaping consultants  
 Leon and Westwood, quantity surveyors



THE site for this sub-divisional police station is adjacent to the Watford-St. Albans motor road, the building being viewed from both flanks as well as the front. This influenced planning and it was therefore decided to build a two-storey main police station with a single-storey cell block, garage accommodation, cycle stores, etc., forming a courtyard at the rear.

The main requirement of the chief constable was that a police officer in the general office should be able to supervise the whole of the ground floor, particularly the two entrances and passage leading to the cell block.

The first floor of the main building contains offices, canteen, kitchen and recreation room.

### Construction

The main external walls are cavity construction comprising 4½in facing bricks, 2in cavity, and 6in hollow clay block. The internal spine wall is of 9in load-bearing brick while internal partitions are of 3in or 4in blocks.

Steel trusses at 9ft 4½in centres form the roof and carry 18in x 18in Hard-row slates.

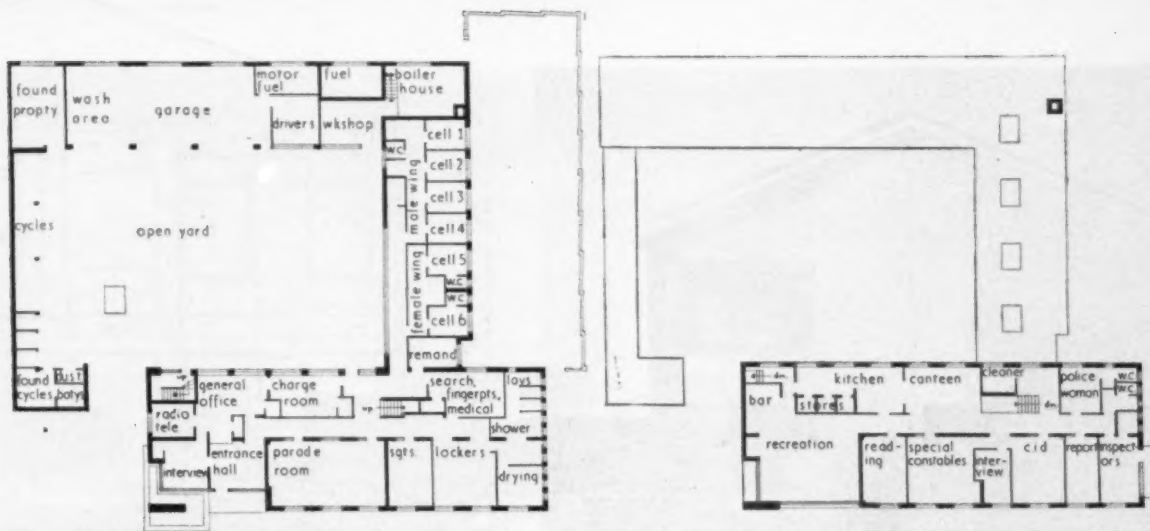
*continued on page 438*

*Top, the main elevation and right, a detail of the entrance. The door to this entrance is detailed on page 438*

Photos: Henk Snoek

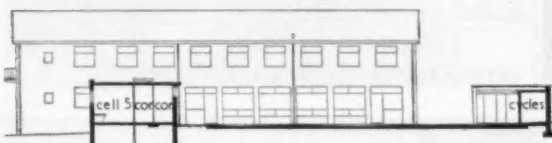




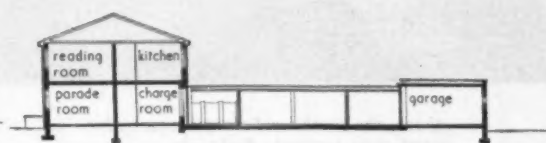


GROUND FLOOR PLAN SCALE: 1 IN = 40 FT

FIRST FLOOR PLAN



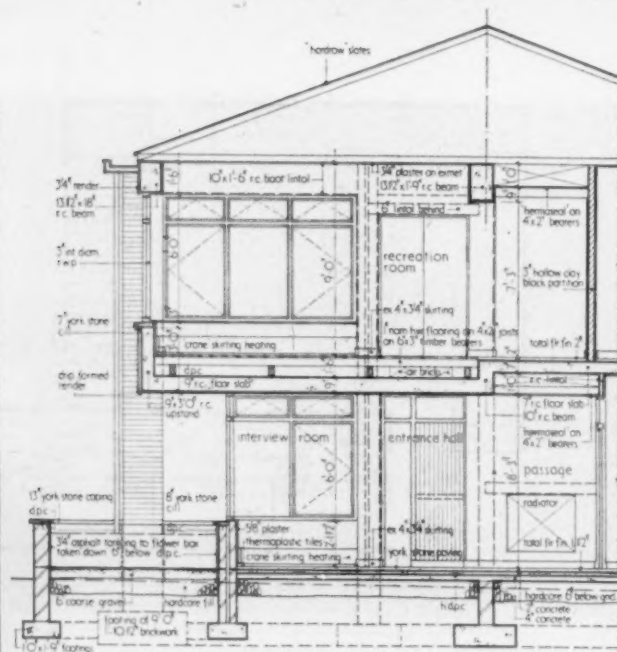
SECTION THROUGH COURTYARD



CROSS SECTION

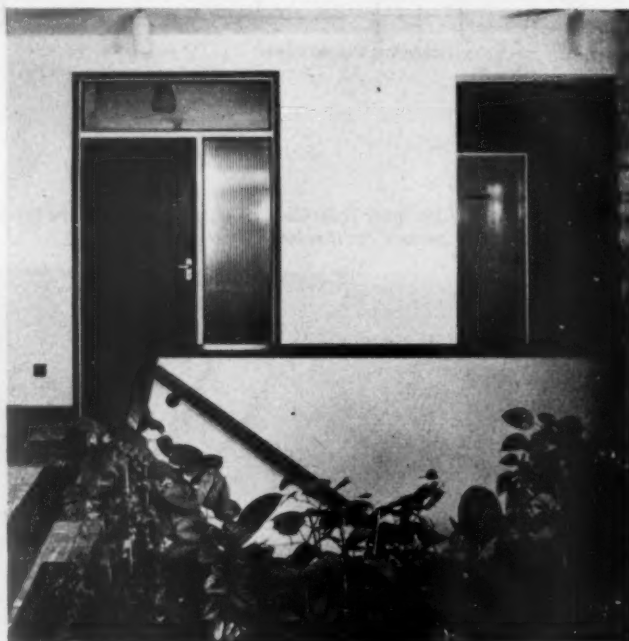
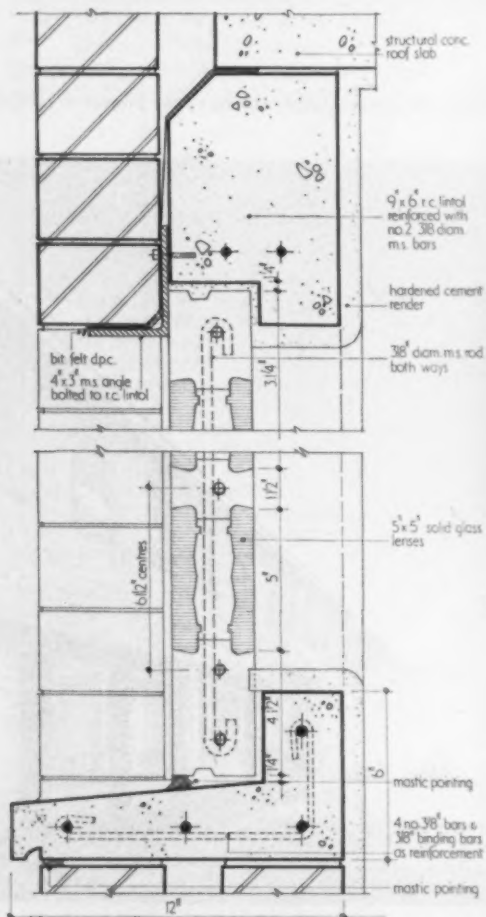
*A view of the inner courtyard. The site being exposed on all sides the grouping and massing of the project is turned inwards to ensure privacy for this inner courtyard*



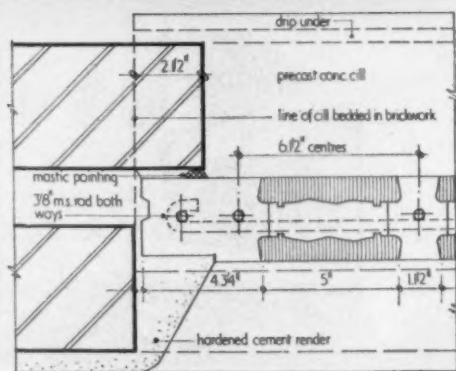


DETAIL CROSS SECTION SCALE: 1 IN = 6 FT

*Above, the south-west elevation (see also detail cross section). Right, the staircase, with a C.I.D. office and interview room beyond*

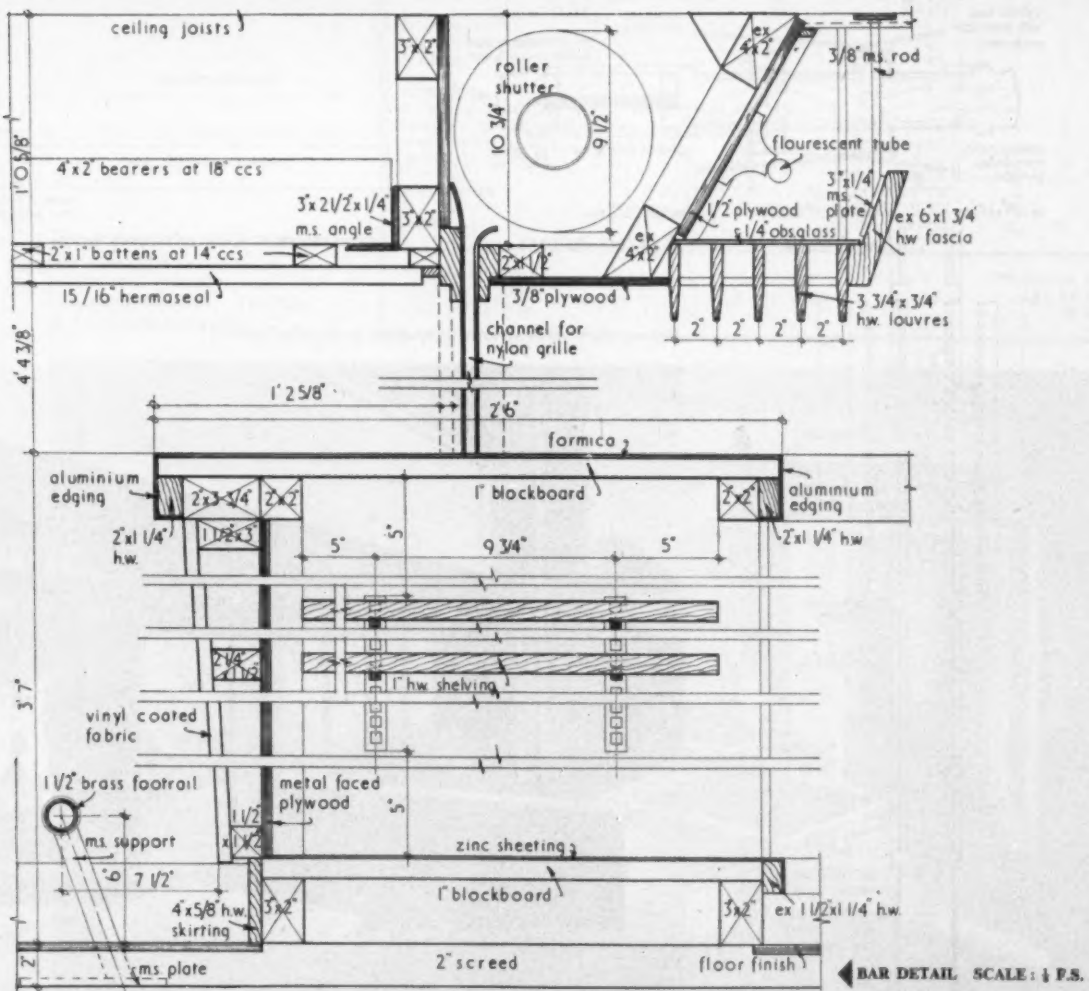


◀ **WINDOW  
DETAIL  
CELL BLOCK  
SCALE : 1/4" = 1'-0"  
JAMB DETAIL  
ON RIGHT**





The recreation room. A detail of the bar is shown below





continued from page 434

The entrance hall has a plate glass panel of toned acid and peppered sand blast shield design.

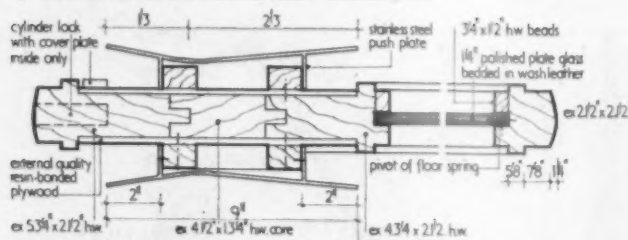
#### Internal finishes

Floors are finished with vinyl asbestos tiles laid in varying patterns. Walls and ceilings are decorated with emulsion paint over plaster. In the ground floor corridor and first floor recreation room the walls are of hermaseal grooved board in a natural finish.

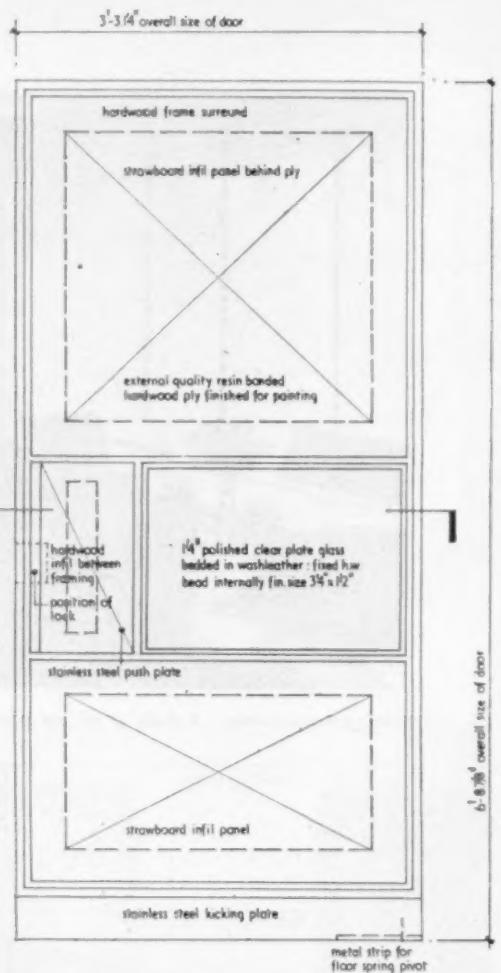
#### Services

Heating is by oil-fired boiler with normal cast iron radiators. In the cells concealed gridded pipes are placed under bed-boards, the controls being in the corridor outside.

#### ENTRANCE DOORS DETAIL PLAN SCALE: 1/8" = 1'-0"

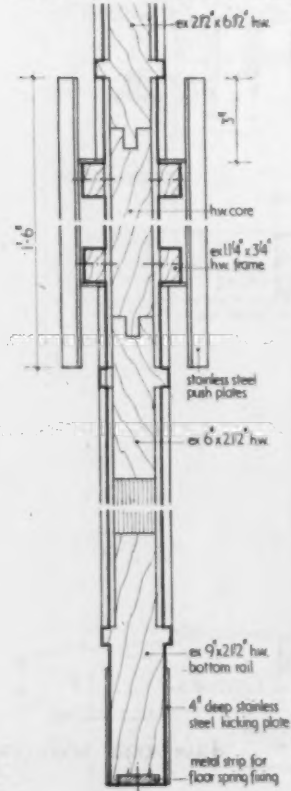


DETAIL SECTION



KEY ELEVATION MAIN ENTRANCE DOOR

Below, the main entrance (the door is detailed above)





**General Contractors:****T. A. BICKERTON & SON LTD.****Sub-contractors and suppliers:**

Acoustic Ceilings: Hall & Co. Ltd.  
 Asphalt Work: Durable Asphalt Co. Ltd.  
 Central Heating and Hot Water Installation:  
 Structural Services Ltd. Doors and Kitchen  
 Fittings: Jayanbee Joinery Ltd. Electrical  
 Fittings: Falks, Stadelman & Co. Ltd.;  
 Fredk. Thomas & Co. Electrical Work:  
 George Clay Ltd. Facing Bricks: A. H.  
 Herbert & Co. Ltd. Furniture: Hille of  
 London Ltd.; Dare-Inglis Ltd.; Kandya  
 Ltd.; Estavian Ltd.; Norwood Steel Equip-  
 ment Ltd. Garage Doors: Cell Doors,  
 Gates and Shutters: Potter Rax Ltd. Glass  
 Crest, Polished Plate Panel and Lettering:  
 J. Hetley & Co. Ltd. Glazed Tiling:  
 Norland Service Ltd. Handrailing: Marley  
 Tile Co. Ltd. Ironmongery and Stainless  
 Steel Fittings: W. N. Froy & Sons Ltd.  
 Metal Windows: Crittall Manufacturing  
 Co. Ltd. Plastering: T. H. Davies.  
 Reinforced Concrete: Brick Flooring Con-  
 struction Ltd. Roofing (in Hardrow Roofing  
 Slates): A. H. Herbert & Co. Ltd. Roof  
 Lights and Cell Windows: J. A. King &  
 Co. Ltd. Roof Trusses: Benfix Steel Co.  
 Ltd. Sanitary Fittings: Haycraft & Sons  
 Ltd. Terrazzo Paving: Standard Pavement  
 Cork Co. Ltd. Venetian Blinds: Tidmarsh  
 & Sons; Crittall Manufacturing Co. Ltd.  
 Wood Block Flooring: Artistic Flooring Co.

**COST ANALYSIS OF CONTRACT PRICES**

Tender date .. .. .	January 1958
Work started .. .. .	March 17, 1958
Work completed .. .. .	April 29, 1959
Tender price accepted .. .. .	£39,750
(lowest tender after incorporation of savings amounting to £4,127)	
Highest tender price .. .. .	£49,918 16s. 0d.
Lowest tender price .. .. .	£43,877
Superficial area of building .. .. .	9,590 sq ft
Cube of building .. .. .	145,130 cu ft

	Total £	%	Per F.C. s. d.	Per F.S. s. d.
<b>Foundations</b> (including all work up to top of concrete ground slab) .. .. .	3,300	8.48	5½	6 10½
<b>Superstructure</b> (Brick walls, patent reinforced concrete upper floor to two-storey portion, flat roof slab over one-storey portion. Roof over two-storey por- tion is pitched and covered with concrete slates and supported on steel trusses and timber rafters)				
R.C. floors and staircases .. .. .	3,350	8.61	5½	7 0
Walls .. .. .	2,900	7.46	4½	6 0½
Roof .. .. .	2,850	7.33	4½	5 11½
Windows (metal in timber frame) .. .. .	1,460	3.75	2½	3 0½
Facing materials or external finishes .. .. .	2,150	5.53	3½	4 5½
<b>Finishes</b> Ceilings (including acoustic ceiling) .. .. .	1,520	3.91	2½	3 2
Doors (plywood veneered and flush for painting .. .. .	1,175	3.02	2	2 5½
Walls .. .. .	2,460	6.32	4	5 1½
Floors and skirtings .. .. .	2,200	5.66	3½	4 7
Canteen and bar counters, kitchen equipment, built-in cupboards and special fittings .. .. .	2,395	6.16	4	5 0
<b>External Works</b> Paths, fencing and roads .. .. .	2,750	7.07	4½	5 9
Drainage .. .. .	1,350	3.47	2½	2 9½
<b>Installations</b> (including builder's work in connection)				
Heating and hot water .. .. .	3,950	10.15	6½	8 2½
Ventilation .. .. .	350	0.90	½	8½
Electrical .. .. .	2,270	5.84	3½	4 8½
Plumbing .. .. .	2,015	5.18	3½	4 2½
Cold storage .. .. .	255	0.66	½	6½
Gas .. .. .	195	0.50	½	5
<b>Totals</b> .. .. .	38,895	100.00	5 4½	81 1½

Total cost of job .. .. .	£38,896 1s. 11d.
Cost per ft super .. .. .	£4 1s. 1½d.
Cost per ft cube .. .. .	5s. 4½d.

The canteen on the first floor.  
 Internal finish generally is  
 plaster and emulsion paint with  
 areas of wallpaper. The floor  
 is Vinyl asbestos tiling



- We regret to record the death of Mr. Frederick G. Atherton a former director of the Cementation Company and joint managing director of Cementation Contracts.
- E. Wood Ltd., of Ware, Herts, have issued two new colour cards for their Talbot range of paints. One illustrates 48 gloss finishes, while the other shows 30 shades in which their Pervelac Emulsion paint and other matt and egg-shell finishes are available. About half the colours are based on the B.S. 2660 range.
- Mr. Leslie Parker, managing director of Anderston Clyde Engineers Ltd., has left on a seven weeks' tour of America with the object of developing the company's overseas market.
- The figure 600 has now been registered as the trade mark of George Cohen Sons & Co. Ltd., and most of the associates in the George Cohen 600 Group.
- The Mudi River Water Board has awarded a £410,000 contract to Richard Costain (Africa) in connection with the Walker's Ferry Scheme, Nyasaland. It entails the laying of 30 miles of high-pressure main varying from 24in to 12in dia, including several river, road and railway crossings and is scheduled for completion in two years.
- Dallow Lambert & Co. Ltd., makers of dust control equipment have opened a new research and development block at Thurmaston, Leicester. The activities of the new department will be exclusively directed towards improving existing designs of the company's equipment and the development of new ideas.
- Wellington Tube Holdings Ltd. show a group net profit for the year ended June 30, 1960, of £696,408 compared with the 1959 result of £501,073. A final dividend of 12½ per cent has been proposed, making a total distribution for the year of 17½ per cent.
- Mr. J. R. Burt, chairman of British Nylon Spinners Australia Pty., Paton and Baldwin (Australia) and other Australian concerns, has been elected chairman of Firth Cleveland Pty., successor company to Simmonds Aerocecessaries Pty.
- Massey Ferguson Ltd., Toronto, have put into operation 9,000 miles of automatic internal communications system which links its 44 offices in 36 cities across Canada and U.S.A. with a private line teletypewriter network.
- Mr. J. S. Whitehouse has joined Mr. T. H. Whitehouse in the formation of J. & T. Whitehouse Ltd., of Crown House, 2b, Ashfield Parade, Southgate, London, N.14 (telephone: Palmers Green 3648). This company represents, on an exclusive agency basis, James W. Ellis & Co. Ltd., manufacturers of structural steelwork of all types. They also have the exclusive agency for the En-Tout-Cas Joinery Co. Ltd. and, in addition, represent Kimbell Machine Tools Ltd. in a number of counties south of Birmingham and north of London.
- Full air conditioning, involving three separate air treatment plants and two water chilling systems, has been installed in Electric House, Strand, London, W.C.2, the new London Headquarters of the English Electric Co. Ltd. The consulting engineers for the air conditioning scheme

and all other mechanical services are Oscar Faber & Partners. Brightside Heating and Engineering Co. Ltd. were responsible for the erection and installation of the whole of the air conditioning and heating services, whilst York Shipley Ltd. were sub-contractors for the supply and installation of the refrigeration plant. Taylor Woodrow Group are the main contractors for the building.

● Mr. G. M. Mason, commercial director of Carter Tiles Ltd., has left on a Commonwealth tour, roughly based on the following route:—Rhodesia, South Africa, Australia, New Zealand, Vancouver, Winnipeg, Montreal and then back to Britain. The purpose of his visit is to strengthen Carter's established outlets and to expand sales of their newly marketed vitreous floor tiles.

● The British Match Corporation Ltd. show gross group profits for 1959/60 of £3,574,000, compared with the previous year's result of £2,765,000. A dividend increase of 4d per £1 stock has been recommended, making a total distribution of 2s for the year.

● Mr. W. G. Hunt and Mr. A. D. George have been appointed directors of the Asquith Machine Tool Corporation.

● H. Newsum Sons & Co. Ltd. are to concentrate all their production activity upon their timber engineered roofing products. They are accordingly withdrawing their other timber engineered products from the market and will now be offering only Trofdek, Girdalinc, shell roofs and straight laminated timber beams. So that they can concentrate all their activities under one roof, Newsums are moving their sales office from 238 High Street, Lincoln, to their head office and factory at Carr Lane, Gainsborough (telephone: Gainsborough 2391).

● Eastwoods Ltd. show a group net profit, after taxation, for the year ended March 31, 1960, of £501,336 compared with the previous year's result of £286,990. A final ordinary dividend of 12½ per cent has been proposed, making a total distribution of 17½ per cent for the year. The Rt. Hon. Sir Derek Walker-Smith, Bt, TD, QC, MP, has been co-opted to the board of the company.

● Mr. A. Marcham, BSc(Hons), MICE, MInstCE, has been appointed director and general manager of the Concrete Development Co. Ltd.

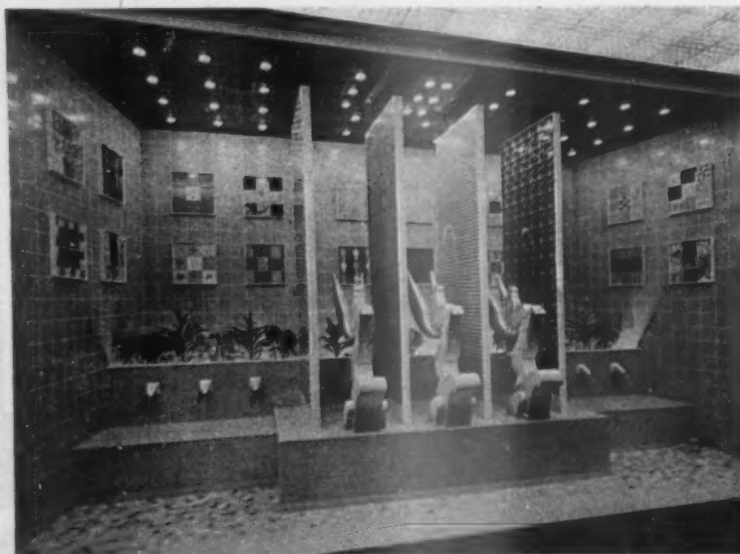
● The telephone number of the head office of Cape Building Products Ltd. has been changed to Uxbridge 37111.

● Lord Tweedsmuir has been appointed a director of The Cementation Co. Ltd.

#### CORRECTION

Stuarts Granolithic Co. Ltd. were manufacturers of the reconstructed stone cross on the main elevation of Blackley Crematorium and not Granolithic Concrete Co. Ltd. as stated on p. 204 of A & BN, August 17, 1960.

*The British Ceramic Tile Council's exhibition in Kings Hall, Stoke-on-Trent, during that city's recent Jubilee celebrations. The centrepiece was a Fountain of Tiles with triple Pegasus mosaic sculptures, each of which ejected a vertical spray of water. The exhibit showed a representative section of glazed wall and floor tiles produced by the Council*

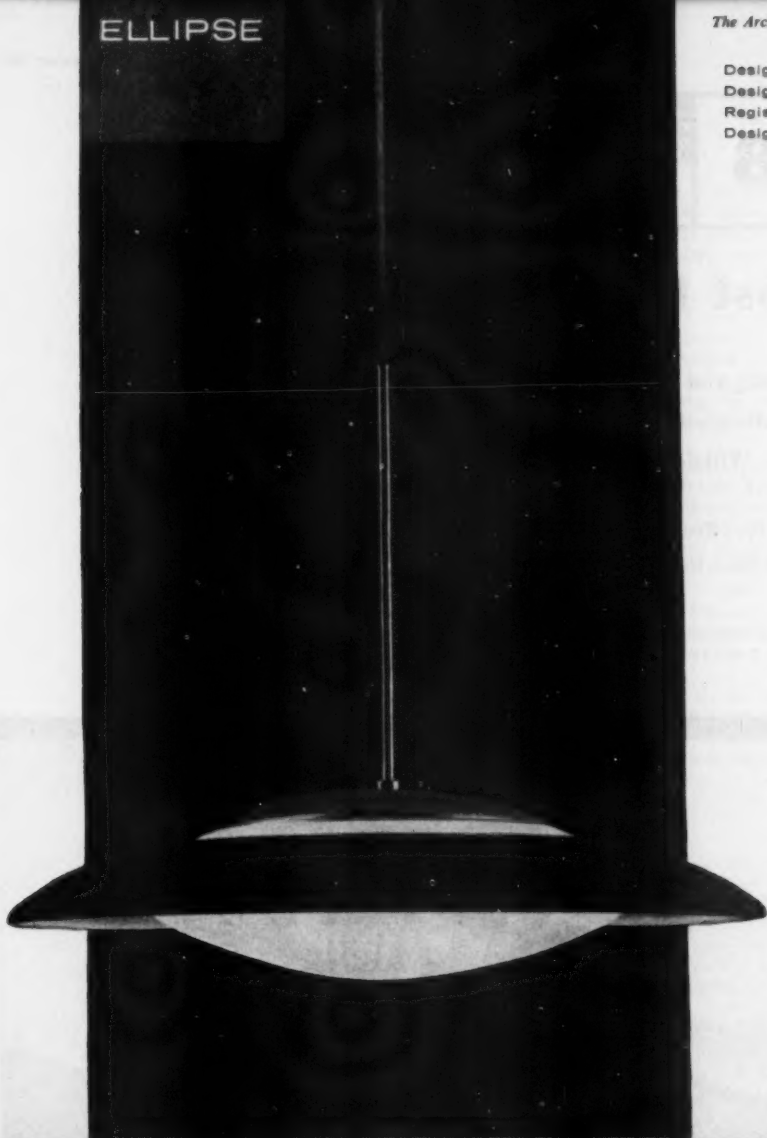


## ELLIPSE

*The Architect and Building News*, 5 October 1960

49

Design of the Year Award, Great Britain, 1959.  
Design of the Year Award, Canada, 1959.  
Registered Design Nos. 888702 and 888738.  
Designed by Paul Boissevain, Dip. Arch. M.S.I.A.



elegance

The Ellipse series by Merchant Adventurers Limited provides architects and engineers with a balanced and integrated range of eighty elegant lighting fittings. These give general lighting with good diffusion and no disturbing glare. Efficiency is over 80%—laboratory test data available.

"SALIENT FEATURES". Glasses in 3-ply white opal in five sizes, from 10" to 22"; Reflectors available with all units—in five sizes, 16" to 32"; Mountings—Tube Pendant, Cord Pendant, Off Ceiling, Flush to Ceiling, Semi-Recessed and Wall Bracket types; Finishes—anodised aluminium satin silver or pale gold, or with a wide choice of colours for the reflectors. Lamp sizes 60w—300w.

A comprehensive leaflet giving full data and prices is available on request.



**MA**

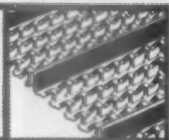
**Merchant Adventurers Limited**

Head Office: Hampton Road West, Feltham, Middlesex. FELtham 3686

London Showrooms: 43 Portland Road, London, W.11. PARK 1223



# HY-RIB



## for low-cost floors

Hy-Rib combined shuttering and reinforcement was used for the concrete floors in six blocks of flats at Beechwood Court, Withdean, Brighton.

**HY-RIB DIVISION, Truscon Limited,**  
35/41 Lower Marsh, London SE.1. Phone WAT 6922

Also:

Birmingham, Edgbaston 4391-2-3; Bristol 21861; Glasgow, Central 0157-8  
Liverpool, Central 5281-2; Manchester, Trafford Park 2766; York 24594



DEVELOPMENT BY:  
Cox's Estate Development Limited

ARCHITECT:  
Leonard S. Gilbert, A.F.A.S.

*Hy-Rib Floors economically achieve high ratings for airborne and impact sound insulation.*



● Coseley Buildings Ltd., of Lanesfield, Wolverhampton, have had increased export orders of over 100 per cent during the past six months. The market in Canada, West Africa, Iraq, Spain and Libya has been developed.

● Mr. A. R. Jackson, general manager of the company's Australian branch, has been appointed to the board of the Consolidated Pneumatic Tool Co. Ltd.

● Mr. R. M. Jones, Sir B. L. Barnett and Mr. J. R. Brinkley have been appointed directors of the Telephone Manufacturing Company, with Mr. Jones as vice-chairman.

● Coventry Gauge & Tool Co. Ltd. have formed a sales organization in Western Germany under the name of Matrix G.M.B.H. The new German company has offices and showrooms at Langen, near Frankfurt.

● Monsanto Chemicals are to pay an interim dividend of 5 per cent.

● W. E. Sykes Ltd., machine tool makers, show a profit for the past year of £291,630, before taxation, compared with the previous year's result of £225,506.

● Mr. T. R. Craig has been appointed managing director (sales) and Mr. R. R. Towndrow managing director (works) of Colvilles Ltd. Sir Andrew McCance will continue as general managing director.

● Murex Ltd. show net profits of £695,000 for the year ended April 30, 1960. A dividend of 20 per cent, plus an additional 2½ per cent bonus, has been recommended.

● Dampcoursing Ltd., formerly of Edgware, Middlesex, on October 1, 1960, moved their head office and works to new addresses. The head office is at 34 St. James Street, London, E.17 (telephone: Coppermill 6040), whilst the works is now situated at West Drayton Garage, Mill Road, West Drayton, Middlesex (telephone: West Drayton 2673).

● The Building and Public Works Exhibition of 1961 will be held at Belle Vue, Manchester, from July 5 to 15. Details of space available can be obtained from the organizers, Seemore Exhibitions Ltd., 412 Tottington Road, Bury, Lancs (telephone: Bury 4335).

● The Crabtree type C-50 miniature circuit breakers (New Products, A & BN, May 18, 1960) are now in production and generally available to the trade.

● The name of the Northern Aluminium Co. Ltd. has been changed to Alcan Industries Ltd. The trade name of Noral will continue to be used.

● Thirty-four members of the Association of Kent Surveyors recently made a tour of the Shorne and Greenhithe Works

of the Atlas Stone Co. Ltd. They witnessed a number of recent developments in the production of stonework, including the American Spectraglaze process and German Windowall. In the former, a glass silica and polyester mixture is cast onto standard structural concrete building blocks so that the glaze runs into the pores and becomes an integral part of the concrete. The latter is a system of modular window frames in concrete, giving slender appearance and flexibility of layout.

● Stotts of Oldham and R. & A. Main Ltd. have now been combined as a result of the former's amalgamation with Messrs. Glover & Main. It is expected that the amalgamation will become effective on November 1, 1960, and the two companies will, for all catering equipment, trade only under the name of Stotts of Oldham.

● A new company, J. C. Bamford (Exports) S.A., has been formed to control all export sales, carry spares and provide service for J.C.B. equipment on the Continent. The head office is at 2 Avenue de la Rasude, Lausanne, Vaud, Switzerland.

● G. H. Downing & Co. Ltd. show a net profit for the year ended March 31, 1960, of £107,667, after providing for taxation, compared with the previous year's result of £62,085. A final ordinary dividend of 7½ per cent has been recommended, making a total distribution of 12½ per cent for the year.

● Sir Donald Perrott, deputy chairman of Dewrance & Co. Ltd. and director of United Gas Industries, has been appointed chairman of J. A. Stirling Ltd., civil engineers and contractors of Welwyn Garden City.

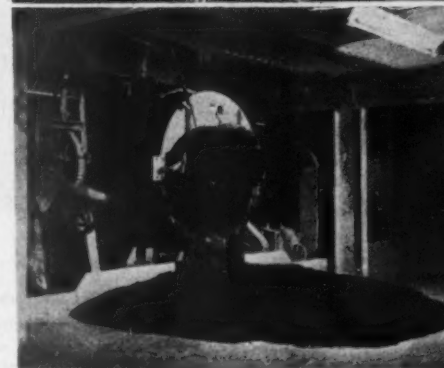
● We regret to record the death, on September 3, 1960, of Norman Findley Spence, AMICE, MIQ, a director and technical adviser of the Croft Granite, Brick & Concrete Co. Ltd. He was a former chairman of The British Cast Concrete Federation and became their first president.

● The Dundee Linoleum Co. Ltd. recently entertained other members of the Linoleum Manufacturers' Association and the Press at their works in Dundee. Lunch was taken at the Invercarse Hotel before visiting the factory where the guests were shown processes involved in the production of linoleum sheet and tiles.

\*

*These photographs, shown by courtesy of The Dundee Linoleum Co. Ltd., show stages in the manufacture of linoleum.*

*1. The oxidation of linseed oil. A scrim sheet is showered with linseed oil twice a day for three months. 2. After oxidation, linseed oil is poured as linoleum cement. 3. Linoleum, after manufacture, is not usable until matured for weeks in 120ft long stoves. 4. The visual inspection of tiles before despatch*



*In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements made to the existing ones. Any advantages claimed on behalf of the products are taken from information given by the manufacturer*

#### Aluminium Windows (A)

A new type of aluminium window, specially designed by this company, has been used on the new English Electric building in London. The requirement was for double windows to ensure sound proofing, with a bright, clean appearance from the outside and yet capable of standing up to the London atmosphere. The outcome was that the inner windows were made from steel and the outer windows of an entirely new design in aluminium with weatherstripping. The new design provides for single, double or no weatherstripping in certain parts of the building; weatherstripping can be quickly fitted at a later stage if required. The window uses a specially designed espagnolette with lever-action handles.

Williams & Williams Ltd.,  
Reliance Works, Chester.  
Readers' Information Service  
Ref. A. 5/10/60.

#### Asbestos Cement Porch Canopies (B)

Purpose-made asbestos cement porch canopies have recently been supplied by this company for a number of new dwellings at Shoburyness. The canopies were designed by D. Richards, ARIBA, of the Southend Corporation Architect's Department and are made in three sections, right- and left-hand ends and an intermediate section to make up the required length. With this system of construction, a canopy of virtually any length can be produced by adding the required number of intermediate sections. The company is prepared to advise architects about individual designs of this type of canopy.

U.A.M. Group Advisory Service,  
Tolpits, Watford, Herts.  
Watford 34551.  
Readers' Information Service  
Ref. B. 5/10/60.

#### New Plain Ceiling Tile (C)

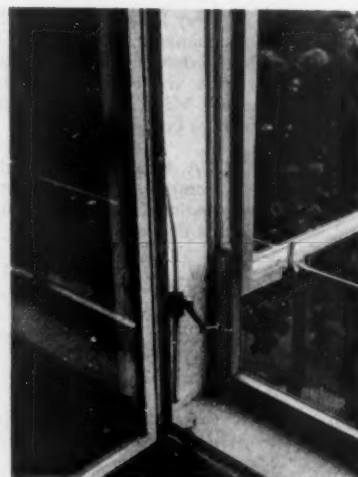
A fireproof suspended ceiling combined with thermal insulation is now available from this company and follows the pattern of other ceilings currently being produced by them. It consists of a plain metal pan which clips into concealed tee bars. Each metal pan contains a lin thick Stillite mattress which gives good thermal insulation and all pans are individually detachable. It is claimed that the ceiling has a fireproof rating of two hours and is therefore considered suitable for use in stores, warehouses, schools, kitchens and

other situations where fire insulation of structural steelwork is necessary. At present only the 24in by 24in module is obtainable but it is anticipated that 24in by 12in and 40in by 20in sizes will be available shortly. Suspended ceilings of this type can be supplied, delivered and fixed, at prices ranging from 39s per sq yd and upwards (including all peripheral trimmings). Pans are obtainable at the following prices: 20,000 sq ft and over—2s 1d per sq ft; 500 sq ft and over—2s 4d per sq ft; under 500 sq ft—2s 5½d per sq ft. Tee bars cost 10d per ft run. Finish: stoved enamel to BS 4-046 or any other British Standard Colour.

Burgess Products Co. Ltd.,  
P.O. Box 11, Hinckley, Leics.  
Hinckley 3701.  
Readers' Information Service  
Ref. C. 5/10/60.

#### Fluorescent Bulkhead Fitting (D)

This company has introduced a compact weatherproof fitting using fluorescent lamps capable of an average life of five times that of the conventional tungsten lamp. By using either one, two or three 12in 8W fluorescent lamps, with an average life of 5,000 hours, the new bulkhead fitting reduces maintenance costs to a minimum and gives a diffused light output on two tubes comparable to a standard 60W tungsten lamp. It is considered suitable for use in ships, dockyards, airports, railway stations, military bases and on industrial, commercial and domestic premises. The fitting incorporates two new patent hinge facilities, one at the top of the fitting, allowing easier access inside, and another rendering the reflector assembly more manoeuvrable. There is a 0.30 stippled Perspex bowl contained within a cast aluminium alloy bowl ring which may be lifted up at right angles to the main body and pulled clear away for inspection purposes. Inside the shell of the die-cast aluminium alloy base, the reflector assembly, consisting of sheet metal bonderized and finished in white epoxy resin stoved enamel, is firmly held by four semi-circular clips extending below the rim of the base casting. On reversing the position of the two clips in either vertical line, the reflector can be swung away from the fitting at either side, permitting instant access to the control gear mounted at the rear of the reflector assembly. A neoprene gasket between the clamping edge of the bowl face and the main body prevents ingress of dust and moisture. Three cable entry points are

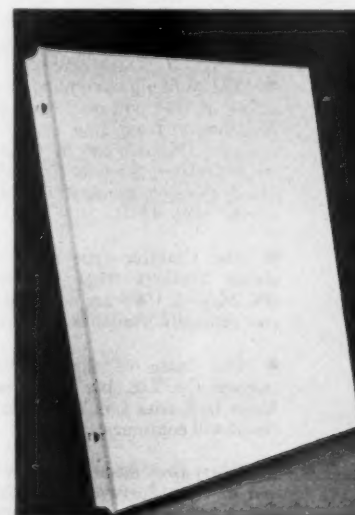


New Aluminium Window (A)



Asbestos cement porch canopy (B)

New ceiling tile (C)



# Z-e-n-i-t-h

... yes, Zenith ...  
by Hills!

... a new addition to HILLS' range

... primarily for housing

... with Placarol Core ... yes ...

What's the difference?

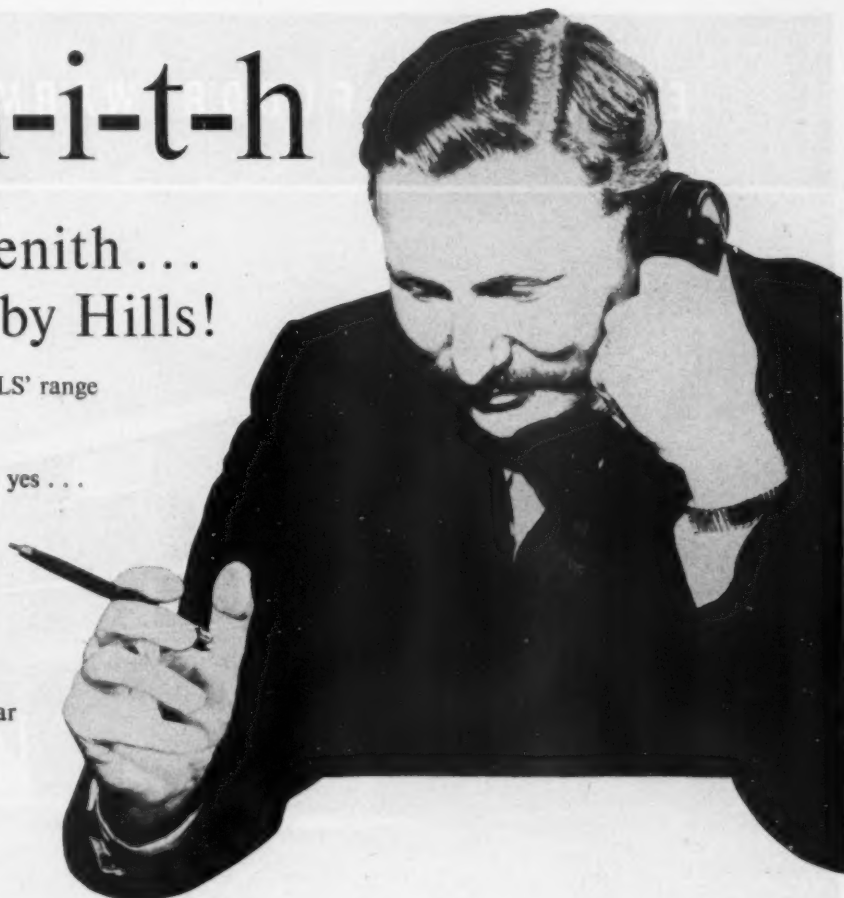
The choice of Makore,

or Heavy Sapele in sliced

veneer facing or

European Oak ... for Clear

Finishing, naturally.



## 'Hills Zenith flush doors'

### PRINCIPAL FEATURES:

*Facing Veneers on Plywood*—sliced Makore, Heavy Sapele (Candollei) or Oak.

*Matching Hardwood Inserted Strip*, a definite advance on traditional lippings.

*Placarol Core*, ensuring freedom from undulation of the facings.

*Lock Block*. Extra large to allow maximum latitude in relation to size and position of lock.



### SSS\* SUPER SATIN SURFACE

Every Zenith Door is Super-Microsealed before leaving the factory. Its "Super Satin Surface" is the ideal base for Clear Finish—an application of wax, liquid polish, or varnish is sufficient to ensure a superior result.

\*SSS (SUPER SATIN SURFACE) IS THE PROPERTY OF GENERAL PLYWOOD CORPORATION U.S.A., SOLE LICENSEES IN THE U.K. F. HILLS & SONS LTD.

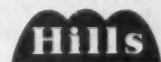
F. HILLS & SONS LTD

Norton Road, Stockton-on-Tees. Telephone 67141

London Office:

Windsor House, Kingsway, London, W.C.2. Tel: CHA. 9251

Telex in operation at both offices





## ELECTRIC FLOOR WARMING

INFORMATION SHEET

4



*The new art block at  
Charterhouse, Godalming*

**Electric  
floor warming  
is cheap to install,  
trouble free  
and highly efficient**

*Planned for comfort* A system of electric floor warming for the new art building at Charterhouse is designed to provide a constant, even temperature of 60°F. (with a minimum outside temperature of 30°F.). Off-peak block storage heaters provide additional heat as required.

The building has a high proportion of glazing from floor to ceiling, and special methods of insulation were devised for its cantilever floor. The area is 4,200 sq. ft. total and the consumption, allowing for school holidays, is 62,000 units per year.

*Simple to install and clean* No fireplaces, flues, chimney breasts, pipes or radiators are required. The need for outside boiler-houses, chimneys, fuel stores and pipe trenches is completely eliminated. And the absence of dirt and staining from pipes and radiators means a considerable saving on redecoration costs. Electric floor warming provides the complete answer to the Clean Air Act.

*Economical and labour saving* Electric floor warming is exceptionally cheap to run because it stores up heat for the day by using off-peak electricity at night. The system virtually looks after itself; therefore all chores associated with solid fuel are ended, and boiler-room staff are no longer necessary.

**If you are thinking of installing electric floor warming, ask your Electricity Board for details.**



provided and two screw plugs are supplied for sealing the entries that are not used once the fitting has been installed. Four recessed clearing holes, two top and two bottom, are provided for securely mounting the unit. The fitting is treated against corrosion and all cast metalwork parts are finished in hammer grey stoved enamel. Overall measurements: 6 $\frac{1}{4}$ in by 15 $\frac{1}{4}$ in. Weight: 6 $\frac{1}{2}$ lb. Price: standard two-lamp fitting (excluding lamps) £5 2s (for either 200/220 or 230/250V). Prices for the single- and three-lamp models are available on application.

*A.E.I. Radio and Electronic Components Division, 38-39 Upper Thames Street, London, E.C.4.*  
*Readers' Information Service Ref. D. 5/10/60.*

★

#### **American Structural System (E)**

This company has been appointed sole licensees for the British Commonwealth and other countries for the 'V-LOK' system which is part of the American Macomber structural system. Briefly the V-LOK system can be described as a method of joining structural members in the same way as a bed frame joins a bed post. The use of bolts, rivets or field welding is unnecessary and it is stated that the erection of steel structures is completed in far less time than with the traditional method. The building can be roofed in at an early stage to speed up finishing work and to advance final occupancy. Further details are obtainable from the licensees.

*Metal Sections Ltd., Oldbury, Birmingham.*  
*Readers' Information Service Ref. E. 5/10/60.*

★

#### **Torque Controlled Impact Wrench (F)**

The CP 610 torque controlled reversible impact wrench is designed for close control of final bolt tightness. It operates as a conventional wrench until the pre-set torque value is reached, at which stage the torque control device cuts off the air supply to the motor and the wrench ceases to impact. The required loading is obtained by the operation of a torque adjustment screw located on the handle of the wrench and a lock-out button on either side can be pressed to lock-out the control and allow the wrench to develop its full capacity. The wrench is available in two forms, the RLTP type (illustrated) being equipped for spline drive whilst the RTP type has a 1in conventional square drive. Particular features of the spline drive shanks and sockets are the achievement of maximum safety through positive retention of the socket, since the retainer is integral with the shank and is automatic in operation; a quick-release button in the shank frees the socket for removal;

and the spline connection is more efficient than a square drive and reduces power losses enabling socket changes to be made with greater speed. The efficiency of power transfer results in more even stress loading of the socket and enables it to be considerably lighter than the equivalent square drive socket. Both models are 16 $\frac{1}{2}$ in long and weigh 23lb. Hose size:  $\frac{1}{2}$ in. Inlet pipe thread size:  $\frac{1}{2}$ in. Maximum bolt size: 1 $\frac{1}{4}$ in. Minimum torque: 300ft/lb. Maximum torque: 600ft/lb.

*Consolidated Pneumatic Tool Co. Ltd., 232 Dawes Road, London, S.W.6.*  
*Readers' Information Service Ref. F. 5/10/60.*

★

#### **Pitch Fibre Knuckle Bend (G)**

A new 90 degree short radius bend has been produced by the makers of Key pitch fibre drain pipes. The bend can be driven directly on to the tapered end of the standard 4in pipe without first fitting a coupling, as was necessary in the earlier model. It is driven on to the pipe by means of a shoulder which protrudes from the back of the bend and is an integral part of its construction. The bend has a radius of 6 $\frac{1}{2}$ in and is 11in long with female tapers.

*The Key Engineering Co. Ltd., Larkfield, Nr. Maidstone, Kent.*  
*Readers' Information Service Ref. G. 5/10/60.*

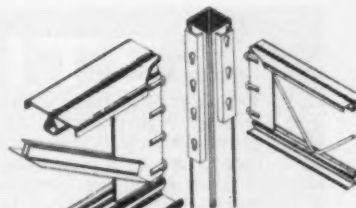
★

#### **New Textured Coating**

Kenitex is a textured material of American origin for the coating of metal, concrete and other masonry surfaces. It is stated to be highly weather resistant, waterproof, fire resistant and to have special qualities of sound absorption. Each application is guaranteed against chipping, flaking or peeling for 10 years. It is a heavy-bodied, textured coating applied by a special high-pressure spray equipment in one application, and is 10 to 20 times as thick as an ordinary paint film. Kenitex provides a uniform-textured finish which will hide surface defects, since it bridges surface cracks and pores yet permits the walls to breathe. It has good adhesion, flexibility and alkali resistance, and can be used for the finishing of ordinary brickwork. It is slow drying, becoming dry to the touch within eight hours but yet does not obtain a final set for three to four weeks. Its fire-resistant and insulating properties are obtained by the use, in formulation, of Perlite aggregate (Perlite K factor equals 0.267). The coating is based upon a durable, waterproof synthetic base vehicle known as Ken-Plaz 6-10. It is pigmented with zinc oxide and contains fungicides (for preventing the growth of mildew spores) plus stearates, titanium dioxide and durable



*Fluorescent bulkhead fitting (D)*



*V-LOK joining system (E)*



*CP 610 impact wrench (F)*

*Short radius pitch fibre bend (G)*



ting pigments. In addition to Perlite it also contains asbestos and mica of the water-ground muscovite type. Volatile components are a blend of medium boiling range aliphatic and aromatic petroleum diluents. It can be used on many surfaces, reducing water condensation on walls, pipes and ceilings and also acts as a protective coating against deterioration due to corrosive chemicals or abrasions. Two textures, fine and coarse, are available and coverage capacity varies from 40 to 60 sq ft per gal. It is claimed that it will not crack when bent over a 1 in radius applied to 16 gauge galvanized sheet at the rate of 60 sq ft per gal. In consistency, it is a viscous semi-paste. Flash point: 100 deg F. Moisture vapour permeability: 4.9 grams per sq metre/day. Finish: 12 colours.

**Kenitex Textured Coating Ltd.,**  
*Spirella House, Oxford Circus,*  
*London, W.1. Regent 3605.*  
*Readers' Information Service*  
*Ref. H. 5/10/60.*

#### Concrete Additives

Two new additives for concrete have recently been produced by this company. Concrete Sealer is a liquid surface hardener for preventing formation of dust by giving concrete surfaces much greater resistance to abrasion. The reduction in surface permeability is claimed to render the concrete reasonably waterproof. For identification purposes, the liquid contains a light-sensitive colouring agent which disappears soon after exposure to light. It is suitable for treating both old and new concrete surfaces, but preferably should be applied seven to fourteen days after the laying of the concrete. The company recommends that the surface should be given three treatments with the sealer, the first in diluted form with an equal volume of water, the second with half its volume of water and the third undiluted. The mixtures are applied with spray or brush until the concrete is saturated and any unabsorbed solution should be brushed off. The second new Manger product, Concrete Hardener, is a liquid which speeds up the setting and hardening process, and is claimed to impart high early strength to concrete and to give adequate protection against frost during cold weather. It is also stated to reduce surface permeability and to render the concrete reasonably waterproof. For frost protection purposes it should be added to the gauging liquor whilst stirring, the quality of Hardener varying according to the temperature. Only the minimum amount of gauging liquid should be used in preparing the concrete before placing it, and it should then be placed immediately. As a set accelerator and hardener, Concrete Hardener should be used in the gauging water at a dilution of one part to ten parts water. Prices—Concrete Sealer, 7s 6d per gal (to cover an average of 200 to 300 sq ft,

depending on the porosity of the surface); Hardener, 7s 6d per gal.

**J. Manger & Sons Ltd., Kingsland,**  
*London, E.8.*  
*Readers' Information Service*  
*Ref. I. 5/10/60.*

★

#### Rust Remover

Pitan Rust Remover has been formulated for the removal of rust from both interior and exterior surfaces. It is a non-combustible and non-toxic liquid containing neither phosphoric nor hydrochloric acid. It can be diluted with three parts of water for removal of surface rust and with 19 parts of water when used for an immersion process. Normally the rust deposit can be removed in a very short time, but deep-seated rust in inaccessible places requires a longer contact period for removal with Pitan Rust Remover. It is interesting to note that the makers claim that the remover may be left in the equipment or system indefinitely without damaging or affecting the unruled metal surface in any way. It can also be added directly to water being circulated through, or contained in, various equipment or systems without requiring a shut-down or inactivity. In most cases, however, mere stationary contact with the rusty surface is sufficient for complete cleaning at any temperature above freezing point of the solution used. After applying the remover, with three parts of water, to rusted surfaces, agitation should be carried out either with a wire brush or steel wool and the solution should be left on for 15 min, then rinsed or hosed down with water to ensure complete neutralization. When separate pieces are immersed for rust removal, they should be soaked for a period of 4 to 48 hr and then rinsed in water before applying oil to prevent re-rusting. When cleaning entire systems such as radiators, heat exchangers, condensers, etc., the system should be filled with solution and left to soak for 24 to 72 hr. Circulation should be applied if convenient. The system should then be thoroughly rinsed out with water and the procedure repeated if necessary. It is important that fresh solutions should be used for different metals. Price: 50s per gal.

**Allweather Paints Ltd., 36 Great**  
*Queen Street, London, W.C.2.*  
*Readers' Information Service*  
*Ref. J. 5/10/60.*

★

#### Anti-corrosion Paint

Fenal quick-drying red lead paint is a primer for use on bare metal. Although it has a red lead content of over 55 per cent, the new paint dries so quickly that it can be recoated overnight and it is claimed that the rapid drying does not lead to brittleness of the film. It is also claimed that, unlike other paints containing red lead, the new product will not set to

a hard cake even after six months storage although slight thinning with best-quality turpentine substitute may occasionally be necessary. The paint becomes surface dry in a period of three hours and hard dry (recoatable) after eight hours, under winter conditions. The paint is stated to have good flow properties and its apparent thickness will not impair the brushing qualities. Coverage of over 40/50 sq yd per gal can be expected. It has a semi-gloss finish which provides added protection for the paint film.

**Fenner & Alder Ltd., Fenal House,**  
*Millwall, London, E.14. East 3886.*  
*Readers' Information Service*  
*Ref. K. 5/10/60.*

★

#### Weatherproofing Material

Oppanol is the name given to a black poly-isobutylene thermoplastic sheeting for waterproofing insulated pipelines. It should be wrapped around insulated pipelines with 2 in edge and 3 in end laps and the overlaps welded together by a brushed-on solvent and pressed down by hand. This operation will weld the two thicknesses of sheeting together, giving a lap which is claimed to be as water- and vapour-proof as the sheeting itself. Additional claims on behalf of Oppanol are that it does not age or rot, is proof against acid attack and corrosion and requires no maintenance. It is capable of withstanding temperatures from -30 deg C to +70 deg C and can be painted to any required colour. It is supplied in rolls measuring 45 ft long by 39 in wide and can be cut to shape. Thickness: 1 mm.

**F.A. (Membranes) Ltd., St. Helens,**  
*Lancs. St. Helens 4224.*  
*Readers' Information Service*  
*Ref. L. 5/10/60.*

★

#### Multi-colour Paint Finish

This company is now marketing Porterfleck, a multi-colour paint finish, produced by their associate company S. E. Porter & Son Ltd. The multi-colour finishes are obtainable in a single spray operation and the range of colour effects is virtually unlimited. It can be applied as a covering for all types of surfaces and the film produced by one coat is four to five times as thick as that of a normal paint film. It will, therefore, mask irregularities in plaster, joins in boards, plaster patches and similar defects in wall surfaces. It becomes touch-dry within 2 hr of application and hard overnight. It is claimed to be highly resistant to abrasion, grease and oil. In addition, it can be washed without damage. It is non-static in character and repels dirt and dust. Porterfleck has a flash point of 100 deg F.

**Sissons Brothers & Co. Ltd., Bankside,**  
*Hull. Hull 41431.*  
*Readers' Information Service*  
*Ref. M. 5/10/60.*

# The New Floating Screed

## SYNTHANITE

### WITH THESE BIG ADVANTAGES!

- \* Simple, speedy laying
- \* Does not depend upon adhesion to sub-floor
- \* 600 sq. yds. can safely be laid without expansion joints
- \* Dries and hardens quickly—ready for floor finish within 6-10 days
- \* Minimum shrinkage and cracking—greater stability and flexural strength
- \* Laid with waxed kraft paper or bitumen, making hacking or grouting unnecessary
- \* Permits the use of directly embedded cables for electrical underfloor heating
- \* Ideal for acoustic floating floors

Synthanite may be laid at  $1\frac{1}{2}$ " thickness over Acoustic Insulation and with its really smooth surface is ideal for plastic tiles, rubber, linoleum, wood blocks etc.

FOR DETAILED LITERATURE, WRITE TO:—



**Semtex Ltd**

1 SEMTEX HOUSE • 19/20 BERNERS STREET • LONDON W.1 • Telephone: LANGHAM 6888



# FIRE PROTECTION

## THE OXYLENE SERVICE

### 1 OXYLENE (Regd.) Impregnation Process Preserves as well as fireproofs and is permanent

★ Gives the highest standard of Fire Resistance available for timber and plywood and is colourless.

★ **TIMBER:** Tested to Grade D (1 hour) BSD No. 476. 1932.

★ **PLYWOOD:** Tested to Grade E ( $\frac{1}{2}$  hour) BSD No. 476. 1932.

★ Accepted by NEW YORK City Fire Authorities. Flameproofing and Preservation also undertaken.

## OXYLENE BORAM

### Surface Fire Retardants

- |                        |   |
|------------------------|---|
| for<br><b>CLASS 1</b>  | <b>OXYLENE BORAM COATING</b> raises timber, plywood, hardboard, insulating board, and acoustic tiles to <b>CLASS 1 'Surfaces of Very Low Flame Spread'</b> (B.S.476/1953), easy to apply and odourless. |
| for<br><b>CLASS 2</b>  | <b>OXYLENE SILICATE COATING.</b> Supplied ready for application by brush or spray. Used by Atomic Energy Authority, N.C.B., etc.  |
| for<br><b>CLASS 2</b>  | <b>OXYLENE BORAM TRANSPARENT</b> for brush or spray application to surfaces where the original grain appearance is to be maintained.  |
| for<br><b>TEXTILES</b> | <b>OXYLENE BORAM FABRIC RINSE</b> will withstand normal dry cleaning but not washing. Odourless, colourless. On test gives high Figure-of-Merit (B.S. 476, Part 2, 1955).                               |

### OXYLENE BORAM IS USED IN EVERY INDUSTRY

Write for details. Test reports on request

## THE TIMBER FIREPROOFING CO. LTD.

13A, OLD BURLINGTON STREET, LONDON, W.1

Telephone: REGent 2489 (2 lines)

Market Bosworth

Glasgow



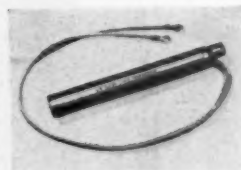
## WHEN YOU'RE CALLED IN...

For advice on efficient  
heating or cooling controls  
you're bound to recommend

## PULLIN THERMOSTATS

### FLOOR LIMIT THERMOSTAT (L4)

has been specially developed to control under-floor heating installations to an accuracy of plus or minus one degree. It is a precision instrument, sealed against dust and moisture, and is used in conjunction with the Pullin A2 Room Thermostat. Once set and installed, it usually requires no further attention.



### ROOM THERMOSTATS AND REVERSE ACTION THERMOSTATS

Two models available—the A2/W and A2/WNL. Precision built to critical specifications and designed to control electric under-floor heating, storage heaters, tubular heaters, warm air systems, etc. Reverse action Thermostats, models A2/RA and A2/RANL, have a proven record after extensive testing. Designed to meet the demand for cooling applications in industry and agriculture, they are accurate to the finest limits.



**YOU WILL ALSO WANT INFORMATION** on further additions to the wonderful range as they are developed during the year—a range of instruments that will provide accurate control for all types of heating or cooling equipment whether industrial or domestic.

### THINK OF PRECISION THERMOSTATS—

**THINK OF R.B. PULLIN**

The A2 Thermostat has been selected by The Council of Industrial Design for exhibition in The Design Centre.

WRITE FOR TECHNICAL LEAFLETS TO

## R. B. PULLIN & CO. LTD.

Thermostat Division, Phoenix Works, Great West Road  
Brentford, Middlesex.

Telephone: ISLeworth 1212. Cables: Pullinco Wesphone London



# measured rates (London)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basic cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to October 5, 1960.

(COPYRIGHT)

**ESSENTIAL ON-COSTS**

Fees payable to L.C.C. for District Surveyor:	
The new buildings of ordinary construction not exceeding 5,000 cubic feet ..	£3
Over 5,000 cubic feet for every extra 1,000 cubic feet up to 1,000 cubic feet add ..	4/-
Buildings over four storeys add 3d per 1,000 cubic feet extra for each storey up to eight ..	3d

**ALTERATIONS AND ADDITIONS**

Up to £100 cost ..	£3
Over £100 up to £1,000— Per £100 cost ..	15/-
Over £1,000 up to £5,000 ..	5/-
Over £5,000 ..	3/-
Public buildings add 50% ..	
Steel framed or R.C. buildings.—See L.C.C. (General Powers Act 1955) also fees in respect of means of escape in case of fire.	

Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk, Travelling and Guaranteed Week is made in the rates attached to the items.

Allow for Fire Insurance ..	1/6%
Allow for Water for use on the works and apparatus ..	5/-%
Allow for hoarding, or similar licences in City of London say £10 Do., under Borough Councils per each month ..	say 2/6
Allow for Office, Fire, Attendance on C. of W., etc. p. week say 40/-	

**ADMINISTRATION AND CONTROL**

Percentage costs on normal contracts in accordance with Builders Turnover per Annum, see appropriate column hereunder:

Place	25	50	75	100
At depot ..	13%	9%	7%	6%
On job ..	6%	5 1/2%	4 1/2%	4%

**SPOT ITEMS AND DEMOLITION, ETC.**

	Per ft run
Hoarding erected and removed ..	20/-
Planked gangway with handrail, etc. do. ..	10/-
Proper gantry do. ..	78/-
Sleeper roadways ..	16/6
Needling, strutting and shoring including all labours and use and waste in erection and removal ..	20/-

	1	1 1/2	2	Per
<b>ALTERATION-DEMOLITION—</b>	Brick	Brick	Brick	yard
Cutting out cement concrete or brickwork in small quantities ..	1/3	2/6	3/7	64/-
Do. if either in very small quantities or reinforced ..	2/2	4/1	6/-	95/-
Debris into baskets and removed from inside to outside of bldg. ..	3 1/2d	7d	9d	14/-

Type	Labour and Transport	Monthly Hire
<b>SCAFFOLDING (Not exceeding 80ft high)</b>		
Heavy Putlog ..	6/-	1/6
Do. Independent ..	7/7	2/-
Light Putlog ..	4/2	1/1
Do. Independent ..	5/2	1/6

	Common Soil	Loamy Clay	Gravel or Clay	Rock or similar
<b>EXCAVATION</b>				
Per Yard Cube By hand ..	7/6	8/10	10/3	68/-
Reducing levels ..				
Surface trench not exceeding 5ft deep ..	14/10	17/8	23/7	84/-
Do. from 5ft to 10ft ..	27/-	30/4	36/4	91/6
Do. from 10ft to 15ft ..	30/9	36/7	42/11	100/-
Fill in and ram ..	6/-	6/7	6/7	6/5
Barrowing 25yd ..	3/3	3/7	3/7	4/2
Load vehicles and tip 8 miles away ..	18/9	18/9	19/9	20/7

	To 5ft deep	5 to 10ft deep	10 to 15ft deep
<b>PLANK AND STRUT</b>			
To trenches, in normal ground ..	7d	9d	11d
Per Ft Super ..			

	Per yard cube
<b>CONCRETE 1 1/2in Ballast Aggregate</b>	
1 : 3 : 6 Cement concrete in foundations ..	80/-
Do. around grillages ..	83/-

**REINFORCED CONCRETE**

1 : 2 : 4—1in concrete, worked around reinforcement, between formwork in the following (at various levels):—Per cubic yard	
Foundations and surface beds ..	89/10
Walls, 12in thick or more ..	96/3

Sectional inches	Lintols and beams	Columns and casings	Braces and projections	
Up to 36 ..	4/7	5/2	5/4	Per cubic ft
36 to 72 ..	4/8	5/-	5/2	do.
72 to 144 ..	4/5	4/11	5/1	do.
over 144 ..	4/3	4/10	5/-	do.
Walls 6in thick ..			18/-	Per super yd
Do. 9in thick ..			26/-	do.
Suspended floors average 6in thick ..			18/6	do.

REINFORCING RODS (round) bent and placed. (Ex Mills)—				
Per cwt. ..	1/2in	3/4in	1in	1 1/4in
In floors and beams ..	92/-	80/-	75/9	67/6
In walls ..	98/-	85/-	79/9	70/6
In columns ..	105/6	90/3	81/-	73/9

FORMWORK and Supports (4 times use)—			
Floor soffits ..	20/3	per yard	
Beams ..	3/-		
Walls ..	2/8		
Columns ..	2/8	per super ft	

**BRICKWORK**

BRICKWORK per YARD superficial reduced to ONE BRICK in thickness (scaffold to add)— In 1 : 3 cement mortar

Flettons or other similar at 122/- per 1,000 ..	40/-
Mild Stocks or do., at 260/- per 1,000 ..	58/-
Second Stocks or do., at 339/- per 1,000 ..	66/8
Southwater engineering or similar bricks, at 400/6 per 1,000 ..	78/-
Blue Staffordshire wire cut at 547/- per 1,000 ..	92/-
Deduct if 1 : 1 : 6 Cement-Lime mortar is used in lieu of 1 : 3 Portland Cement mortar ..	2d
Add if brickwork commences above ground level ..	4/9
Do. if in backing to masonry including cutting and waste for bonding ..	3/10
Do. If circular-on-plan ..	9/-
Do. If in underpinning ..	9/-

**BRICKWORK IN THICKNESS NOT REDUCED—**

Per yard superficial	Brick on edge walls	Half-Brick walls	1 Brick finished fair both sides	1 1/2in Hollow with 2in cavity and G.I. TIES
In Flettons or similar ..	18/6	23/7	43/8	49/3
In second stocks or do. ..	31/3	41/4	74/-	73/-
Add: for pointing as work proceeds, per side ..	1/9	1/11	1/9	1/9
Thickness to old walls, including cutting, toothing and bonding to same average total thickness of 1/2 brick ..	58/-		72/-	per yd super do.
Do. all as last but an average total thickness of 1 1/2 bricks ..	79/-		102/6	

**WALLS BUILT IN SUPERIOR BRICKS—**

In 1 : 3 Cement mortar, fair faced and pointed on both sides as the work proceeds:—			
Half-Brick One Brick			
In first-quality Stocks at 375/- ..	45/-	75/-	Per yd super do.
In red facings at 330/- ..	38/6	67/9	
In blue pressed facings at 614/- ..	60/9	106/2	

**GENERAL AND SUNDRY**

Cut tooth and bond new brickwork to old ..	5/9	per ft
Damp-proof course, double slate, horizontal ..	4/9	super
Do., as last, but vertical ..	5/9	do.
Do., bitumen, Hessian base, horizontal ..	1/1	do.
Frames, bed and point in cement mortar, one side 4 1/2d per ft run		
Window board of 6in by 6in by 1/2in rounded on edge ..	4/3	do.
quarry tiles, bedded, pointed, cut and fitted ..		
Terracotta air bricks built in and pointed, including flue ..	9in by 6in	9in by 9in
Chimney pots, plain red, set and flauenced in cement mortar ..	6/6	11/6 each
Metal windows, assembled, hoisted and fixed, lugs cut and pinned and frames bedded and pointed one side in cement mortar ..	1ft high	2ft high
	18/-	26/- each
	Up to 5ft super	5ft to 10ft super
	15/2	18/9 each
	10ft to 20ft super	20ft to 40ft super
	28/5	47/- each
Leaving holes through walls for pipes and afterwards making good ..	Small pipes 3d per in in depth	Large pipes 6d per in in depth
Cutting do., and afterwards do. ..	11d do.	2/- do.
Cut mortices in brickwork or concrete for bolts or dowels and run in with cement grout ..		1/3 per in in depth, each
Holdfasts of stout iron hoop bent, holed and screwed to frame and built in ..		1/7 each

**BRICKWORK—continued****FACING—**

Extra only over common brickwork (122/- per 1,000) for facing with superior bricks in *Flemish bond* and pointing as the work proceeds.

Rustic Flettons (162/-)	..	..	5/-	per yd super
White (220/-)	..	..	9/6	do.
First Stocks (375/-)	..	..	20/9	do.
Reds (350/-)	..	..	19/-	do.
Blue pressed (614/-)	..	..	40/6	do.

If built in English bond, Add 12½% to above.

If do., half-brick stretcher bond, Less 25% off above.

**COPING—**

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

Per ft run	9in thick	14in thick
In picked Flettons	6/8	9/-
In first-quality Stocks	8/-	12/-
In red facings	7/5	11/11
Plumbing angles	..	2d per ft run
Fair cutting	..	1/- do.
Fair rake cutting	..	1/7 do.
Fair circular cutting	..	1/7 do.
Fair squint or birdsmouth	..	1/11 do.

**ARCHES**

Extra over Fletton brickwork for forming window head with red facing bricks set on end and with 4in soffits and pointing

Do. for rubbed and gauged flat arch in red rubbers set in putty with fine joints

**PARTITIONS**

(75 yards)	2in	2½in	3in
Concrete slab partitions in cement mortar	11/9	13/6	15/-
Hollow clay do.	13/5	15/6	18/-
Cutting and bonding at angles, inter-sections and ends	..	5d ft run	..

**PAVING**

	1in	1½in	1½in
Grano trowelled gauge 5 : 2	8/6	9/6	10/8 yd super
1 by 5in skirting, square top and cove bottom	..	..	2/10 ft run
½in by 6in red quarry tile paving	..	..	28/- yd super
½in by 6in do. skirting	..	..	2/- ft run
Jointless flooring, ½in thick	..	..	20/- yd super

**ASPHALT (normal conditions for 200 yds super and upwards)**

½in pitch mastic floor in one coat on felt underlay on prepared concrete base

Per yd super	13/6	Brown Mastic B.S.988	Red Natural Rock B.S.S.1162/44
--------------	------	----------------------	--------------------------------

Unit ½in in two thicknesses on felt underlay on prepared concrete base

Do. in narrow widths

½in skirting 6in high, angle fillet at bottom splayed and turned in at top

External angles

Internal do.

Tanking or Damp Course

Vertical in two thicknesses

½in horizontal do.

Vertical in three thicknesses

½in horizontal do.

Labour rounded external angle

Do. internal angle fillet

Do. double do.

Collars to small pipes

Do. to large pipes

**DRAINAGE**

Per lineal yd

Excavate trench, and plank and strut to sides, consolidate bottom to fall, return, fill and ram earth after drain is laid and load and remove surplus.

In ordinary ground—moderately firm.

(By hand)

Portland cement (1 : 6)	concrete bed under drain	4in	6in	9in
..	..	18in wide	20in wide	23in wide
..	..	8/6	10/-	12/3

**SALT GLAZED SANITARY DRAIN PIPES**

and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	4in	6in	9in
"Best"	2ton or more	3/1	4/8	7/8
..	100 pieces and over	3/8	5/6	9/4
"Best Tested"	2ton or more	3/8	5/6	9/4
..	100 pieces and over	4/7	6/10	11/6
"British Standard"	2ton or more	4/9	7/2	11/10
..	100 pieces and over	3/4	5/-	8/2
"British Standard Tested"	2ton or more	4/-	6/-	9/9
..	100 pieces and over	4/1	6/1	10/2
Extra for bends	"Best"—Contained in 2ton lots	3/11	5/10	9/10
Extra for junction "Best"	—4in on 4in—6in on 6in—9in on 9in	4/10	7/3	12/5
..	do.	4/11	7/5	12/9
Extra for junction "Best"	..	4/2	6/3	16/6
..	..	6/6	9/9	27/-

**IRON DRAIN PIPES—**

Heavy cast iron socketed and laying and jointing in molten lead—	Per ft run
In main runs	4in 16/6 6in 23/6
In branches	18/6 27/- each

Extra over last for bends and extra joint

Do. on do. for junctions and extra joint

Cast-iron gully with 10½in inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete

Do. rain water, shoe with vertical inlet and inspection cover, and joint up and embed

MANHOLE SUNDRIES—

Salt glazed straight half-round main channels	each	6/-	8/7
Do. curved	do.	14/-	20/-
Do. three-quarter section splayed channel bends (Barrons or similar)	do.	18/-	26/6
Heavy manhole steps galvanized	do.	12/6	—
Fix only manhole covers	do.	12/-	—
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	do.	41/-	—

**ROOFER****CORRUGATED ASBESTOS SHEETS**

P.C. 8/3½ per super yd including side and end laps and fixing to wood

Eaves filler pieces

Adjustable ridge

Barge boards

Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately)

Extra over last for top edge or abutment cutting

Do. for double course at eaves

Do. for verges, undercloak, bed and point

Do. Valley tiles including cutting and waste on both sides

Do. Bonnet hips and do. bed and point

Half-round ridge and bed and point

Fixing soakers

Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic and finished with fine dry grit

Do. but in one layer only

WELSH SLATING

3in lap, 2 zinc nails to each slate

Additional labours

At tops, verges and abutments—straight

Do. —raking

At hips and valleys (each side)

At eaves, double course

Do. to falls



**This is a *Stelrad***

**the Radiator  
that's made  
in the size  
you want,  
and in the  
shape your  
client likes**

Now who would have thought the Stelrad Steel Radiator had been with us for nigh on twenty-five years?

Why, you can probably remember people telling about it at the time.

***Stelrad* PATENTED PROCESS RADIATORS**

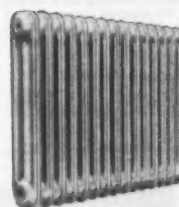
Some were doubters, holding forth about steel and how the only Radiator to use was one that was not only heavy to handle but ungainly to behold. But where is the Stelrad today? In buildings large and small throughout the length and breadth of the land, and in a range so wide there is not a single nook a Stelrad cannot heat.



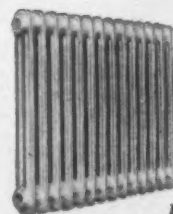
*Double Wall*



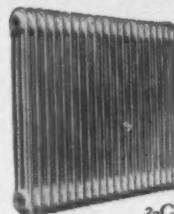
*Angle-Wall*



*3-Column*



*Easy Clean*



*2-Column*



*Window seat type*

**STEEL RADIATORS LIMITED**

BRIDGE ROAD, SOUTHALL, MIDDLESEX • Telephone: SOUThall 2603





# BROUGHTON MOOR SLATES & STONE

are Nature's own supreme protection for the home of man against the vagaries of time and weather. Quarried from the ruggedly beautiful Westmorland Mountains near Coniston—the land that Ruskin knew and immortalised—these famous slates and stone are renowned for their extreme durability and the colourful picturesqueness of their Light Sea Green, Olive Green and Mixed hues.

**SPECIFICATION.** The roof to be covered with Broughton Moor Light Sea Green Best Quality (coarse grained) Westmorland Slates, to be obtained from the Broughton Moor Green Slate Quarries, Ltd., Coniston, The Lake District, Lancs., in random sizes about 18" to 9" long, proportionate and random widths, laid to a 3" lap in regularly diminishing courses from eaves to ridge. Each slate to be securely fixed by two stout copper nails, and wide slates are to be used on the hips and verges. **Alternatives:** Seconds, Thirds, Special Peggies; Olive Green and Mixed Shades. **Ridging:** "Bromoor" purpose-made of crushed and moulded slate from the same veins is recommended.

## TECHNICAL INFORMATION CONCERNING BROUGHTON MOOR WESTMORLAND GREEN SLATES

QUALITY	LENGTH (Random widths)	COMPUTED COVER in sq. yds. per ton (3" lap)	APPROX. WEIGHT Per square (3" lap)—cwt.
BESTS	from 18" to 9"	24	9
SECONDS	from 18" to 9"	20	10½
THIRDS	from 18" to 12"	18	12
SPECIAL PEGGIES	from 15" to 7"	22	9½
SECOND PEGGIES	from 10" to 7"	20	11

Samples and prices gladly sent. Immediate Delivery.

BROUGHTON MOOR LIGHT SEA GREEN AND OLIVE GREEN STONE remains sound for centuries and is eminently suitable for external and internal facings, Foundation Stones, Paving and Flooring, Steps, Cills, Shop Fronts, Surrounds, Pilasters, Fireplaces and all architectural work.

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2. Facings.
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TRUCKING AISLE AT  
VAUXHALL MOTORS — LUTON

## STONHARD COMPANY LIMITED

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# FLOORS AND FLATS

Hollow tile <i>in situ</i> or pre-cast units hoisted, bedded and fixed—				
Superimposed load				
in lb per ft super				
Span	12ft	16ft	20ft	24ft
50	44/9	52/9	59/—	67/3
100	47/—	59/—	67/3	75/6
150	53/9	67/3	75/6	83/9
Per yd super	100	150	200	250
20lb has been allowed to cover dead load in surface, finish.				
Fair edge to slabs	..	..	9d per ft run	1/9 do.
Splay cutting and waste	..	..	..	..

# CARPENTER AND JOINER

SOFTWARED CARCASSING—				
Labour, materials, waste nails	Plates	Joists	Rafters	Trusses
hoisting and fixing	18/9	20/3	22/—	25/5

FLOORING—	Per square—	1/2in	1in	1 1/2in
Rough boarding	..	145/—	172/—	204/—
Softwood batten flooring, straight joints, splayed headings	..	150/—	171/—	209/—
Do. grooved and tongued	..	171/—	194/—	243/—

SKIRTING—	Per ft superficial	1/2in	1in	1 1/2in
Wrot softwood moulded skirting with grounds and backings plugged	..	4/—	4/8	5/3
Mitres to do.	3d per sectional in.	..	..	..
Fitted ends	2d do.	..	..	..

# SASHES, fanlights, casements, borrowed lights, etc.—

Per ft super—	Without bars	With bars (2ft sup. in each square)
2in softwood rebated, moulded and fixed	3/6	6/5
Add if fitted with beads	6d	6/5
Add if hanging on butts	3/— each	..

# WINDOWS, hung on lines—

Softwood casement frames, 1in inner and outer linings, 1 1/2in pulley stiles, 2in sashes, oak sill				
Overall size of frames—				
Per ft super	6ft	21ft	32ft	44ft
Windows as described	21/6	12/—	9/—	7/—
Add if sashes in squares, about 2ft super in each	..	1/8	2/2	2/2
Extra for hanging sashes with lines, weights and axle pulleys	38/—	66/—	77/—	88/—

# FINISHINGS TO OPENINGS

Per ft super—	1/2in	1in	1 1/2in	2in
Softwood linings, tongued at angles and tongued to frame including grounds and backings	4/8	5/3	5/10	6/4
Add if crosstongued	8d	8d	8d	8d
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers	3/10	4/4	4/—	5/6
Add for ends to last notched, returned and rounded	1/1	1/2	1/3	1/4

Per ft run—	Sectional area in in—					
Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	1	2	3	4	5	6
Add if in short lengths	4 1/2d	7d	9 1/2d	1/—	1/3	1/5
.. if plugged to brickwork	6d	6d	6d	6d	6d	6d
.. if framed as in legs and bearers	3d	3d	4d	4d	6d	6d
.. if rebated or grooved or beaded	2d	2d	2d	2d	2d	2d
.. if chamfered or rounded edges	..	..	..	3d	..	..
.. if moulded in architraves, capping, etc.	..	..	..	6d	..	..

# DOOR FRAMES

Per sectional in—	6in	8in	10in	12in	13in
Softwood, wrot, reb. & rdd.	2/3	2/8	3/2	3/6	3/10

# DOORS—Per ft super

Number of panels—	2	3	4	5	6
2in Softwood square	1	2	3	4	5
framed and flat panels, both sides, on butts	6/—	6/10	7/5	8/—	8/4
1 1/2in do.	5/4	6/2	6/7	7/2	7/7
Add for each side	..	..	..	..	..
moulded	3d	4d	5d	6d	7d
Add B.S. flush panelled	1/6	1/6 1/2	1/7	1/8	1/8

Per ft super—	1/2in	1in	1 1/2in	2in
In shelves, table tops, wrot and fixed	2/6	2/10	3/6	3/11
Do. in divisions and ends framed	2/10	3/2	3/10	4/5
Add if crosstongued	6d	6d	6d	6d
Add if buttoned	6d	6d	6d	6d

# SUNDRIES—Per ft run—

In short	In long	Add for cups and screws
Glazing, beads mitred around	lgths	lgths
and fixed with beads	6d	4d
Rounded heel or hollow	..	4d
Tongued and grooved angle	..	6d
Glue blocking	..	6d
Mitres	3d	per sectional in
Fitted ends	2d	do.

# STAIRCASE—

1 1/2in Softwood treads with moulded nosings	Per ft super
1in raisers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages	6/8
Do. but in winders	8/3
1 1/2in crosstongued landing on framed carriages	6/4
2in moulded string	5/8
2in. do. ramped	14/—
Ends framed to newel	10/— each
Tongued heading joints	6/— do.
Ends of treads and risers housed to string	3/6 do.
Extra for curtail ends to steps, glued up and veneered riser and solid blocking	100/— do.
Balusters about 2ft 9in long, square and framed each end	1 1/2in 1 1/2in
3 1/2in by 3 1/2in square newel, framed	2/6 3/1
African mahogany moulded 3in by 2in hand-rail. (Joints below)	4/— per ft run
Do. ramped 18in girth (do.)	9/3
Do. wreathed do. (do.)	54/— each
Joint or framed ends	160/— do.
	12/— do.

# FIXING ONLY IRONMONGERY

To deal	To hardwood
Barrel bolts	2/— 3/— each
Flush bolts	5/9 5/— do.
Sash fasteners	3/— 3/6 do.
Rim locks and furniture	4/6 6/— do.
Mortice locks and do.	10/— 20/— do.
Cupboard locks	2/9 3/5 do.
Casement fasteners	2/6 3/— do.
Do. stays	2/6 3/— do.
Grip handles	3/— 3/6 do.
Spring catches	2/6 3/— do.
Cabin hooks	1/10 2/5 do.
Floor springs including oil	50/— 65/— do.
Overhead springs	15/— 20/— do.
Springhinges	15/— 20/— do.

# SMITH AND FOUNDER

Basic framed steel joists and hoist and fix	80/— per cwt
Do. but in compound girders	90/— do.
Do. but in stanchions	92/— do.
Trusses	130/— do.
Additional cost per cwt over basic sections for following R.S.J.s	
9in by 7in, 10in by 8in, 12in by 8in, 14in by 8in, 16in by 8in, 18in by 6in, 18in by 7in, 20in by 6 1/2in, 20in by 7 1/2in	8d per cwt
22in by 7in, 1/1 cwt, 4in by 3in	1/10 do.
5in by 3in, 5in by 2 1/2in	2/2 1/2 do.
6in by 3in, 24in by 7 1/2in	2/6 do.
3in by 3in, 2/9 cwt, 4 1/2in by 1 1/2in	4/— do.
3in by 1 1/2in	4/4 do.
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts	174/— do.
Forged straps	132/— do.
Wrot iron balustrade	175/— do.

# RAINWATER GOODS

Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork	2in	3in	4in
Extra for shoes	4/7 1/2	5/3	6/7
Do. junctions	5/7	7/2	10/3
Do. bends	8/5	10/9	15/7
	6/7	8/6	10/10

# RAINWATER GUTTERS

Per ft run—	4in	5in	6in
Half round C1 gutters jointed in red lead and bolted and fixed on iron brackets	4/2	4/11	6/1
Ogee do. All as last	4/7	5/3	6/6
Extra for stop ends	3/4	4/1	4/3
Do. angles or outlets	5/10	7/5	8/9

**PLUMBER**

EXTERNAL—		Soakers		Flats		Flashings	
4lb Milled Sheet lead per cwt		147/-		190/-		202/-	
LEAD PIPES: running joints, etc.							
Per ft run		1in	2in	1in	1 1/2in	1 1/2in	2in
Main	Fixed with hooks	4/5	6/-	8/3	9/7	13/6	18/-
Service		3/11	5/4	7/-	8/8	10/10	14/2
Waste		2/9 1/2	3/11	5/1	7/2	7/9	10/-
Bends	each	—	—	—	1/9	3/-	8/-
Solder joints	do.	9/8	11/8	13/5	13/8	18/2	23/8
Union and joints	do.	14/2	17/1	21/4	27/2	—	—
Stop valve and do.	do.	27/10	37/10	52/-	82/6	—	—
Bib valve and do.	do.	19/8	27/-	—	—	—	—
Ball valve and do.	do.	26/9	36/9	52/6	80/6	—	—
Sleeve and do.	do.	—	—	—	—	21/6	29/7

**COPPER TUBES**

	1/2in	3/4in	1in	1 1/4in	1 1/2in	2in
Tubes per ft run	3/1 1/2	3/9 1/2	4/10	5/8	7/-	8/11
Couplings: straight	—	—	—	—	—	—
each	3/-	3/6	5/-	6/10	11/6	15/10
Do. Elbows each	5/4	6/3	8/4	12/2	18/6	35/-
Do. Tees do.	8/7	9/11	13/3	19/-	28/7	39/9
Overflow bends	9/2	11/8	16/5	—	—	—
Stop cocks do.	22/-	31/6	50/-	77/-	97/-	153/-

**BLACK TUBING (Heavy)**

	1/2in	3/4in	1in	1 1/4in	1 1/2in	2in
fixed with pipe brackets	—	—	—	—	—	—
Tubes, per ft run	2/4	2/7	3/4	4/-	4/8	6/1
Bends and fix, each	5/2	6/4	8/5	10/7	13/-	19/9
Tees and do.	5/8	7/-	8/4	10/7	12/11	19/-
Fire bends	2/2	2/9	3/1	3/4	4/5	8/-

Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance		2in	4in
pieces and molten lead joints	..	5/11	8/7 ft run
Extra only for bends and joint	..	15/3	24/5 each
Do. junctions and joints	..	16/10	30/8 do.
Do. cleaning doors	..	16/4	18/1 do.
Domical wire guards	..	2/6	2/9 do.

**PLASTERER**

		yd super
Lime and hair	1/2in Render and set	7/3
Do.	1 1/2in Do. float and set	10/6
Sirapite	1/2in Skimming coat	4/-
Do.	1/2in Render and set	8/2
Do.	1/2in Render, float and set	10/2
Portland	1/2in Backing coat	4/10
Do.	1/2in Plain face	8/3
Do.	1/2in Floor screed	5/-
Keenes	1/2in Skimming coat	5/3
Dubbing	1/2in Thick or less	3/-
Metal Lathing	1/2in mesh by 24 Gauge	7/6
6in by 6in by 1/2in Earthenware Plain Glazed Tiles, in fair quantity white, and setting (on prepared screed)	..	55/-
Rounded edge. Extra over last	..	6d per ft run
Angles in do.	..	6d each
Cutting and fitting. Around pipes or clips	..	1/6 do.
Narrow widths. 3in to 6in wide. Add 75 per cent to plain surface.	..	—
Do. 6in to 12in do. Add 50 per cent to plain surface.	..	—
Sundry labours per ft lineal:—		
Quirk 6d.	Arris 4d.	Fair edge 6d.
Flush bead 1/9.		Rounded edge 9d.
Mouldings—6d per in girth.		—
Jointing new plastering to old 6d.		—

**POLISHING**

	Ft super	6" Girth
NEW WORK—		
Staining, bodying-in and French Polish	3/-	2/-
Staining and wax polishing on hardwood	1/6	1/-
OLD WORK—		
Cleaning down old work and repolish	1/4	—
Stripping, preparing and repolishing	3/4	2/3

**PAINTING (Quality work)**

Including use and care of brushes and mobile plant.				
	Knot stop and prime	Prime and paint once	Prime and paint twice	Add for each extra coat
ON WOOD—				
General surfaces	2/9 1/2	5/7	8/-	2/4 yd super

Running lengths not exceeding 3in wide	4 1/2d	8 1/2d	1/-	3 1/2d yd run
Do. 3in to 6in wide	5 1/2d	11d	1/4	4 1/2d do.
Do. 6in to 9in wide	9d	1/6	2/1	7 1/2d do.
Do. 9in to 12in wide	11d	1/11	2/7	9 1/2d do.
Sash square each side	5/5	10/3	14/11	4/4 1/2 per do.
Do. in large squares	8/3	15/-	21/-	6/7 do.
Opening edges	7d	1/2	1/9	7d each
Casement frames each side	6d	1/-	1/4	5d yd run
Mullions or transoms do.	8d	1/5	2/-	7d do.
ON PLASTER				
Paint on surfaces	..	3/1	5/10	8/3 per yd super
Do. on mouldings	..	3/5	6/5	9/2 do.
Do. on enrichment	..	6/2	11/8	16/6 do.
ON STEEL				
Paint on structural steel	..	2/5	4/7	6/10 do.
Do. on roof trusses	..	2/8	5/1	7/8 do.
Do. on metal windows measured over all on both sides, divided into squares	..	3/5	5/9	8/7 do.
Do. divided into large squares	..	2/10 1/2	5/-	6/9 do.
Do. divided into extra large squares	..	2/5 1/2	4/2	5/10 do.
Do. on opening edges	..	10d	1/6	2/- each
Do. on rain water pipe	..	10d	1/6	2/2 yd run
Do. on do. gutter	..	1/3	2/8	3/7 do.
Do. on small pipe	..	3d	6d	10d do.

**GLAZING (to New Work)**

Polished Plate Glass ordinary substance (about 1/2in), glazing quality, in the following sizes, glazed complete—Per ft super			
in plates not exceeding 2ft super in each	..	..	7/2
Do.	..	..	8/3
Do. (unless extra sizes) 45ft	..	..	9/7
Do. (unless extra sizes) 100ft	..	..	10/2
Add extra price for glazing with screw beads or clips 5d per ft super.			
Do. if glazing bedded in washleather or velvet 9d per ft run.			

**SHEET GLASS, glazed, complete, per ft super, in new work:**

Ordinary quality clear, glazed to wood with putty:—			
24oz as described	..	..	1/7 1/2
26oz do.	..	..	1/10 1/2
32oz do.	..	..	2/3
1/2 figured rolled, glazed	Group 1	Per ft super	1/10 1/2
to wood with putty	Group 2	do.	2/4 1/2
Do. in standard tints	..	do.	2/10 1/2
No. 1 Fluted, glazed do.	..	do.	2/5
1/2 in Reeded (narrow, broad, etc.)	..	do.	3/2 1/2
Reedylite do.	..	do.	2/4
Spotlyte do.	..	do.	2/4
1/2 in Rough cast do.	..	..	2/2 1/2
1/2 in do. wired do.	..	do.	2/6
1/2 in Georgian Rough Cast do.	..	do.	2/6 1/2
Add for glazing all as before but to steel to similar work as above, 1 1/2d per superficial ft.			

**PAINTER AND DECORATOR****DISTEMPERING—In common colours, put on with brushes—ON PREPARED SURFACE**

	1 coat	2 coats	Add if required
per yd super—	(finish)	(under-coat and finish)	Sealing coat
Ordinary distemper on flat surface of plaster	10d	1/6	6d
Washable do. on do. of plaster	1/-	1/10	6d
Add if in margins, narrow widths or panels	30%	30%	20%
Add if on mouldings	50%	50%	45%
Add if on enrichments	160%	160%	115%

**PAPERHANGING**

Hanging only—		Per Piece—Lining Pattern	
On walls	..	7/6	9/-
On stairs	..	10/3	12/-
On ceilings	..	9/-	10/6



## Space saving insulation with

# THERMALITE

### Loadbearing insulating building blocks

In these single storey homes at Crowthorne in Berkshire, designed and built by Renway Construction Company Limited, 3" Thermalite Blocks are being used for the loadbearing inner leaf of external cavity walls. They will provide a high degree of extra insulation plus an overall saving of internal floor space.



#### Properties of Thermalite.

1. Dry density 50 lb./ft.<sup>3</sup>
2. Compressive strength to BS:2028 type A.
3. Moisture movement/drying shrinkage to BS:2028 type B.
4. Thermal conductivity (k) 1.4 B.T.U.'s, etc.
5. Nominal face size 18" x 9" or 9½", actual sizes 17½" x 8½" or 9¼" x 2½", 3", 4", 5", 6" and 8½" (tolerance to BS:2028).
6. Fire resistance 4" loadbearing plastered hot face—2 hour grade. Fire resistance 4" non-loadbearing unplastered—4 hour grade.

The photograph shows the neat returns to the reveals, typical of Thermalite construction. No special Corners or Closers are necessary; Thermalite Blocks are readily and accurately sawn. The 3" thickness of the inner leaf can clearly be seen.

Thermalite is particularly suited to dry construction. Direct reliable fixing without need for plugs further reduces the cost of this economic construction method. Note, too, that the cable channelling is spiked directly to the Thermalite wall for speed and simplicity.

For further information and samples apply to:

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Hams Hall, Lea Marston, Sutton Coldfield, Warwickshire.  
Telephone: Coleshill 2081.

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**where****weight****matters****LYTAG***Lightweight aggregate gives...**Maximum workability*

LYTAG gives greater workability for a particular mix than any other lightweight aggregate, because its spherical particles present the minimum surface area to be wetted.

*Minimum shrinkage and high early strength*

The low water contents of LYTAG concretes lead to reduced drying shrinkages and give high early strengths. Surface finishes obtained on precast concrete units are smooth and pleasing.

*High fire resistance with low 'U' values*

The combustible content of LYTAG is less than  $\frac{1}{4}\%$ . It will withstand temperatures of up to 1,000°C without damage. At the same time, it provides a 'U' value well below that of ordinary concrete. For example, the 'U' value of a 6" LYTAG structural concrete element would be less than a half that of the same element in dense concrete.

*60% Air — 100% efficient*

LYTAG is produced from pulverised fuel ash by a carefully controlled sintering process. Spherical in shape, it has a slightly roughened surface so providing an excellent key for the adhesion of cement.

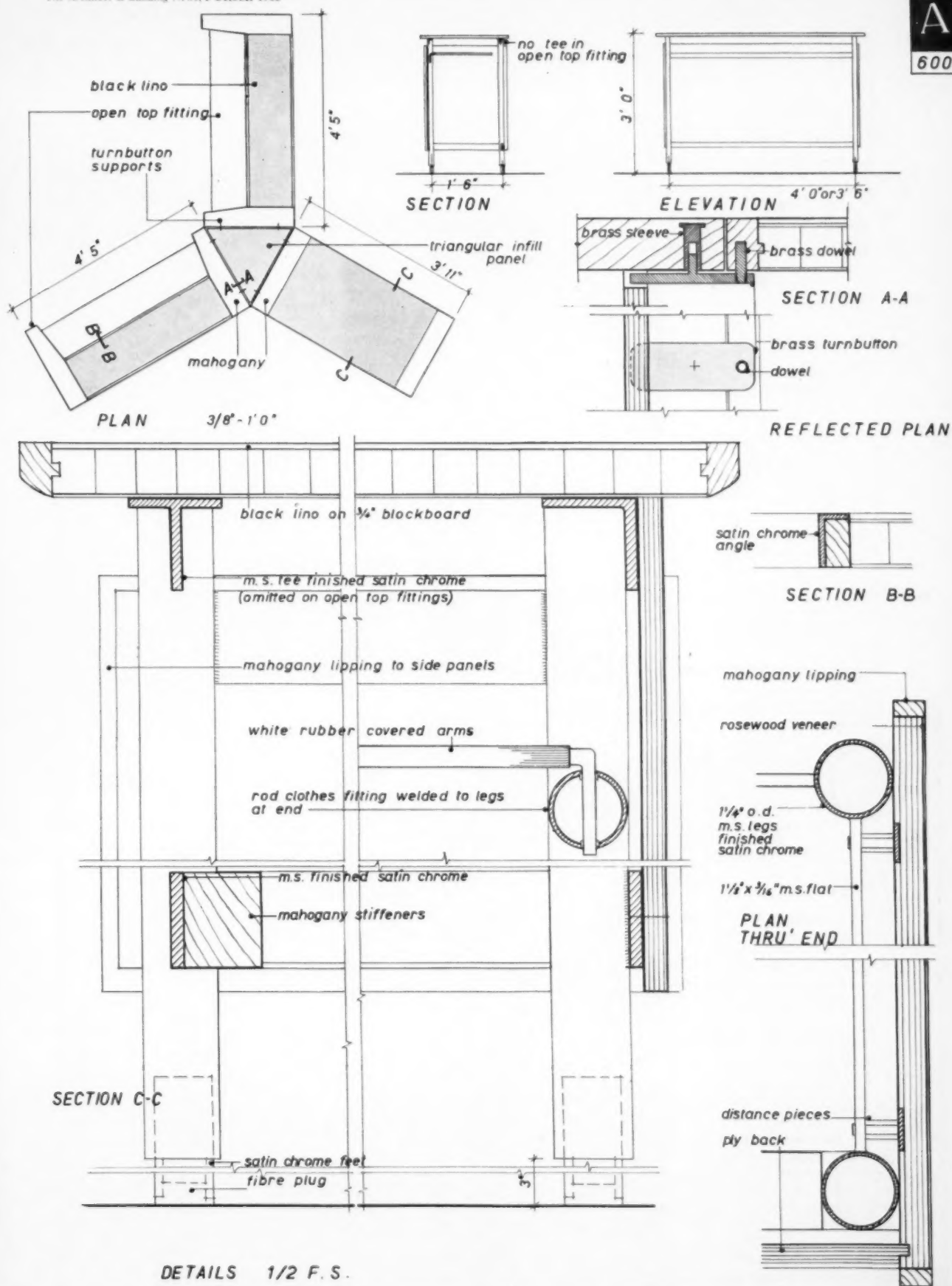
*Technical literature covering all aspects of LYTAG will be forwarded on request. Write to:*

**LYTAG LIMITED**

MANOR WAY, BOREHAM WOOD, HERTFORDSHIRE.  
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**Hampstead B.C.** The housing committee has approved, in principle, proposals for Fleet Road redevelopment area to comprise 133 flats and 36 maisonnettes in one four-storey, three five-storey and two 14-storey blocks and a three-storey garage block for 108 vehicles.

**Lewisham B.C.** has approved a scheme for modernization and extension of the Sydenham branch library, estimated cost £15,000.

**Lowestoft Corporation** has approved plans for 24 flatlets for old people in Hollingsworth Road.

**Ripon C.C.** The housing committee has approved an amended layout plan and house plans for 20 houses in Oak Road for re-submission to the Ministry.

**Swansea Corporation.** The housing committee has approved an amended layout for the development of the eastern side of Long View Road.

Tenders are to be invited again for the erection of a valve compound wall at Gorof Bridge, Ystradgynlais.

The highways committee has approved a planning application by W. J. Thomas for a block of shops and petrol filling station in Green Close, The Mayals.

### SUBMISSIONS FOR PLANNING AND BYE-LAW APPROVAL

**Bexhill Corporation.** Plans submitted for (1) erection of 21 dwellings off Seabourne Road for Provincial Properties Ltd.; (2) outline for (a) seven-storey block of shops, flats and garages in Devonshire Road; (b) 59 flats and 31 garages on the Riposo Hotel site for G. Wimpey & Co. Ltd.; (3) alterations and additions to Lake House, Collington Lane West, for Girls' Life Brigade.

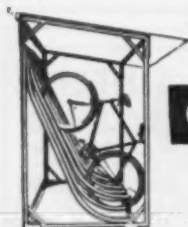
**Cheltenham Corporation.** Plans submitted for (1) erection of (a) 15 flats in two three-storey blocks in Glencairn Park Road and Lansdown Road for Castlefields Ltd.; (b) motor repair garage in Prestbury Road for W. H. Simms; (c) E.S.N. school in Wardon Hill Road and Loweswater Road; (d) eight two-storey lock-up shops in Albion Street for

Winchcombe Properties Ltd.; (e) three-storey extension to provide four garages, 13 bedrooms and additional sanitary accommodation at Milverton Hotel, Bayhill Road, for Mr. Funciman; (f) warehouse and offices in Kingsditch Lane for Chas. Dickens Ltd.; (g) milling and storage building at Leckhampton Railway Sidings, Leckhampton Road, for Bloodworth & Sons Ltd.; (h) industrial building in Tewkesbury Road for Homan & Rogers Ltd.; (2) alterations and extensions to (a) offices at Imperial Square; (b) Fauconberg House in St. George's Road for form boarding house accommodation for Cheltenham Ladies' College; (c) 121 High Street for The Halford Cycle Co. Ltd.; (3) outline for (a) 15 houses in Village Road for R. M. Muir; (b) four pairs of semi-detached houses off Hillview Road for Chine Investments Ltd.

**Chester Corporation.** Plans submitted for (1) erection of (a) two detached and 12 semi-detached houses with garages in Garth Drive; (b) builders' workshop and offices on Sealord Road Industrial estate; (c) machine room in Eastgate Street; (d) out-patients' department at the Royal Infirmary; (e) filling station in Parkgate Road; (f) office building in City Road; (2) alterations to 15/17 Christleton Road; (3) extension of club house at Curzon Park; (4) conversion of King's school, St. Werburgh Street, into bank.

**Croydon Corporation.** Plans submitted for (1) erection of (a) four flats and garages in Whitworth Road for The Hetmond Finance & Mortgage Co. Ltd.; (b) 14 houses and garages in Wharncliffe Road for H. R. P. Owens; (c) six shops with maisonnettes over, seven houses, four flats, estate depot and 22 garages at the corner of Bridle Road and Broom Road for the Corporation; (d) four flats, eight maisonnettes and garages at 51 Ashburton Road for E. W. Waller & E. Bird; (e) four houses and garages in Beauchamp Road, c/o Grange Road, for Miller & Reid; (f) 15 flats and 10 garages at 15 Ashburton Road for S. Connor (1955) Ltd.; (g) 32 one-unit garages at 3-11 Mowbray Road for Tamworth Park Construction Co. Ltd.; (h) 20 one-unit garages in Morland Road for Morland Road Garages Ltd.; (i) store and loading dock in London Road for C. & Q. Stores Ltd.; (j) additional offices at Beulah Works, Beulah Road, for Roband Electronics Ltd.; (k) junior school, senior girls' boarding house, dormitory, library and practical blocks

at Royal Warehouseman Clerks and Drapers Schools, Coombe Lane, Croydon; (l) store building and office in 36/43 Kings Road for H. C. Hill Ltd.; (m) two greenhouses and potting shed at Bingham Nurseries, Bingham Road, for M. W. Hoye; (n) two shops with living accommodation over in Feeldans Avenue for the Corporation; (o) 42 flats and garages on Knighton Hotel site, 139 Pampisford Road, for Wellwood Estates Ltd.; (p) six one-bedroom flats in St. Augustines Avenue for Eagle Construction Co. Ltd.; (q) 47 flats and 38 garages in South Norwood Hill for H. D. Kingston Ltd. and Dorrington Investment Co. Ltd.; (r) 24 flats and 21 garages in Haling Park Road for Sir Lindsay Parkinson & Co. Ltd.; (s) 18 one-room flats, 12 two-room flats, 15 one-unit garages and space for five cars in South Norwood Hill for House Property Advice & Mortgage; (t) 21 flats and 16 one-unit garages in Sylvan Road for F. W. Kubach; (u) store building in Morland Road for R. White & Sons Ltd.; (v) six flats and six garages in Beulah Road for J. D. Allen; (w) stores, workshops and offices in Factory Lane for South Eastern Electricity Board; (x) church and premises at 26 Addiscombe Grove for E. J. Ryall; (y) five flats and garages in Woodville Road for H. J. Humphries and J. Blunt; (z) office block with basement car park in Lansdowne Road and Walpole Road for Durleigh Gardens Investments Ltd.; erection of (a) offices and stores in London Road for The British Legion; (b) nine flats and garages in Violet Lane for E. & H. Everest Ltd.; (c) car showrooms, service station and car park with offices over in London Road for Mayday Motors Ltd.; (d) conservative association club, ancillary offices, stewards' quarters and car park at 14 Tavistock Road for the Conservative Club Co. Ltd.; (e) 13 flats and garages in Thornton Road for Davus Estates Co.; (f) I.T.N. London permanent television station at Beaulieu Heights, South Norwood Hill, for the Independent Television Authority; (g) showrooms and offices with car park in London Road for H. J. Longinotto; (h) four two-room flats, four one-room flats and eight garages at 1 Cypress Road for Land & Site Developments Ltd.; (i) 16 flats, 24 maisonnettes and 40 garages at 45/51 Warminster Road for M. J. Gleeson (Contractors) Ltd.; (j) 23 flats and garages in St. Augustine's Avenue for Abasic Ltd.; (2) extension to (a) factory in Vuncan Way for A. H. Hunt (Capacitors) Ltd.; (b) offices and store in Purley Way for Rotameter Manufacturing Co. Ltd.; (c) factory in Vuncan Way for S. Warner & Son Ltd.; (d) printing



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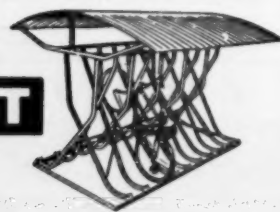
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works in Purley Road for Standard Printing Co. Ltd.; (3) conversion of 2 Norbury Avenue into four flats for T. H. H. Foster; (4) alterations and extensions to bank in London Road for National Provincial Bank Ltd.; (5) internal alterations to office and factory in Bedford Place and Lansdowne Road for Mechanism Ltd.; (6) demolition of (a) Eros Cinema and erection of offices, cinema and shops at North End for The Cranleigh Group Ltd.; (b) 149 Pampisford Road and erection of 16 flats and garages for J. Irvine; (c) 41 Warminster Road and erection of seven flats and seven garages for Land & Site Developments Ltd.; (d) 1 Beulah Crescent and erection of four flats and garages for Mrs. Smale; (e) 6 Dunheved Road South and erection of six flats and garages for Exors of S. Gray-Barton deceased; (f) 14/15 Dingwall Road and erection of five-storey office block for H. Ibbetson; (g) 414-420 Sydenham Road and erection of two shops with living accommodation over and nine garages for Mrs. D. M. Aldridge; (h) 22-24 Parchmore Road and erection of eight flats or maisonnettes for H. Cook; (i) 30 Dornton Road and erection of eight maisonnettes for the Corporation.

**Edmonton B.C.** Plans submitted for (1) erection of (a) one-storey factory building for manufacture of cellulose paints at Cobden Works, Kingsway estate; (b) factory and offices at Angel Factory Colony for Sinehill Furniture Co. Ltd.; (c) four shops with two floors of offices over at Angel Corner Parade; (d) toilet block at Pegamoid Works, Eley's estate; (e) office in Park Road for M.K. Electric; (f) one-bedroom maisonnettes and

six garages in Rosemary Avenue; (g) warehouse, stores building and toilet block on Eley's estate, Angel Road, for Every-Ready Co. Ltd.; (h) 12 flats and garages in Bush Hill Road; (i) 24 two-bedroom flats and 47 garages in Galliard Road and Bury Street; (j) 18 detached dwellings in The Orchard; (k) two-storey office block and one-storey 'Atcost' building in Nobel Road; (2) extension to (a) factory to provide welfare facilities, works offices and other internal alterations at 248 Fore Street; (b) No. 3 boilerhouse in Angel Road for British Oxygen Engineering Ltd.; (3) demolition of 171 and part of 169 Church Street and erection of car showroom with flats above for Blatters Garage.

**Exeter C.C.** Plans submitted for (1) erection of (a) garage with petrol tank and pump in Belgrave Road; (b) offices, garages, workroom and store in Market Street & Guilea Street; (c) workshop and offices in Christow Road; (d) four shops with offices over, Group 20, in Sidwell Street; (f) seven houses, two flats and seven garages in Heavitree Road; (g) bungalows and houses on the Croft Chase estate, Barley Lane; (h) warehouse and offices in Bartholomew Street East; (i) bank premises in Cowick Street; (k)

lecture, physics and chemistry buildings in Queens Drive and Stocker Road; (l) six pairs of semi-detached houses in Isleworth Road; (m) horticultural block at Northbrook school; (n) computer unit and offices in South Street and Coombe Street; (o) wholesale house for distribution of newspapers in Western Way and Summerland Street; (2) outline for (a) car showrooms and petrol pumps in Cowick Street; (b) workshop and 12 lock-up garages at Wonford Service Station, Wonford Street; (3) extension of science block at Exeter school; (4) layout for 82 houses and 46 garages on Broadfields estate.

**Torquay Corporation.** Plans submitted for (1) erection of (a) two-storey block of eight flats in St. Marychurch Road and Ash Hill Road for J. R. Stubbs Ltd.; (b) garage with offices over in Babbacombe Road for Phoenix Assurance Co. Ltd.; (c) 13 flats in Ridgeway Road for Torbay Estates Ltd.; (d) 16 flats with garages in Warren Road for Western Development Ltd.; (e) fruit and vegetable depot in Woodland Road for Drake & Sons Ltd.; (f) lift and second floor extension at Vane Cliff Hotel, Vane Hill Road, for J. M. Liddell & Son Ltd.; (2) formation of bathroom at San Remo Hotel, Belgrave Road, for J. K. Hassell; (3) conversion of Ilsham Lea Hotel into 12 flatlets for J. Le Resche; (4) extension of Seaway Guest House, Newton Road, for J. E. Darlington; (5) outline for 12-storey block of 72 flats in Church Road for Houserenters Investments Ltd.; (6) addition of lounge, bathroom and bedrooms at Sandhurst Hotel, St. Marychurch Road, for B. A. Skinner.

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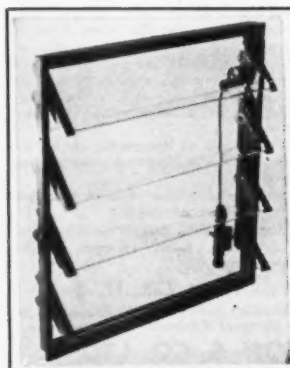
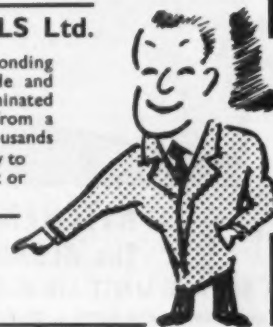
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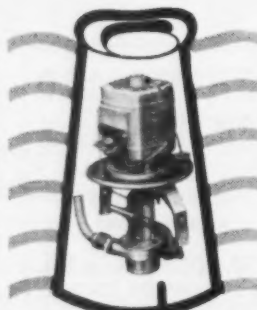
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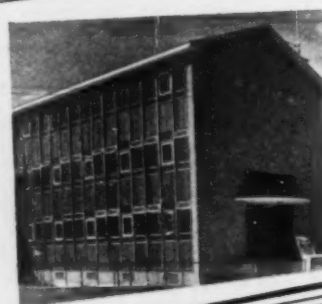


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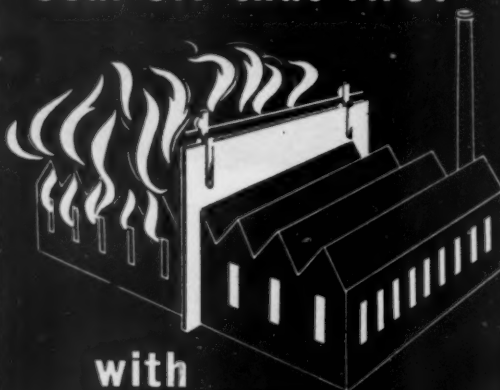
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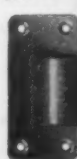
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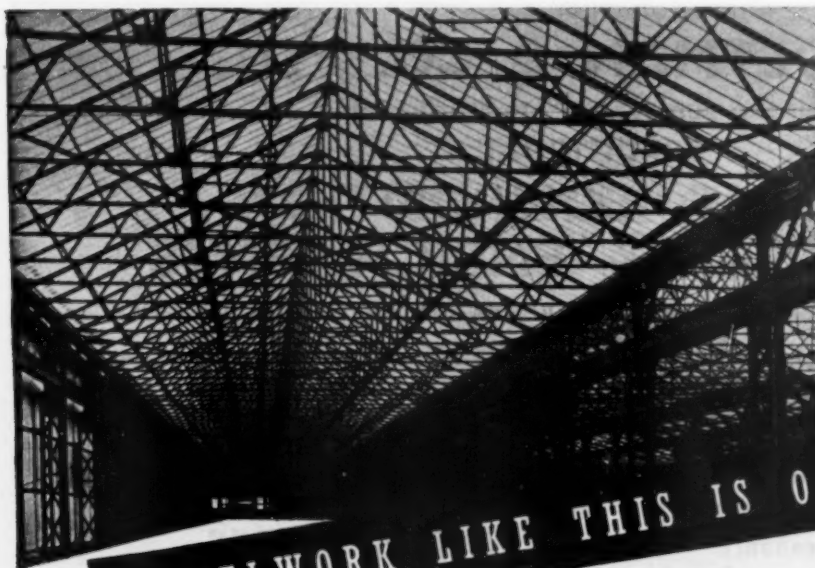
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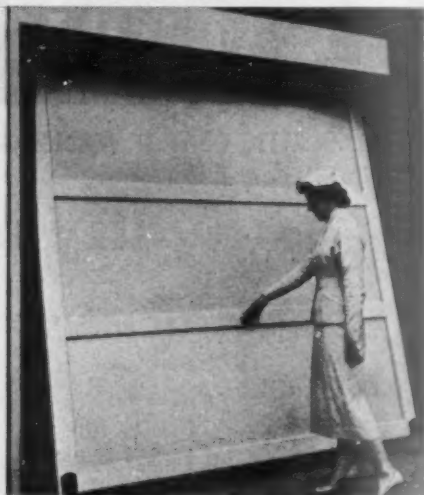
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Forms of application from the undersigned (quoting ref. A.B and position applied for) to be returned by October 24, 1960.

S. D. ASKEW,  
Clerk of the Board.

New River Head,  
Rosebery Avenue, E.C.1.

[7026]

### City of Bangor City Surveyor's Department APPOINTMENT OF BUILDING SURVEYOR

APPLICATIONS are invited for the post of Building Surveyor on the permanent staff of the City Surveyor's Department, at a salary in Grade APT II (£815-£960 p.a.) and subject to the Local Government Superannuation Acts and National Scheme of Conditions of Service.

Candidates should have had experience with a Local Authority in connection with Building Byelaws and Public Health Acts, and also be capable of carrying out surveying work.

Housing Accommodation will be provided in appropriate cases.

Application Forms from the City Surveyor, Town Hall, Bangor, to whom they must be returned not later than October 17, 1960, endorsed 'Building Surveyor'. [7047]

### Borough of Walthamstow Borough Architect's Department

WALTHAMSTOW is a municipal borough within the County of Essex, population 113,000, rateable value £1,747,737. It is a progressive authority and there is a large programme of interesting architectural and redevelopment schemes to be undertaken.

Applications are invited for the under-mentioned vacancies on the permanent staff of the Borough Architect.

(a) **One Senior Assistant Architect.** £1,185-£1,355 per annum inclusive of London Weighting.

(b) **Two Architectural Assistants.** £645-£960 per annum.

Plus an additional allowance of £25 or £40 depending upon age.

Applicants for post (a) must be professionally qualified and have had extensive experience, and applicants for posts (b) should have the appropriate qualifications.

The Council will make 100 per cent advances to successful applicants for house purchase within the Borough or in adjoining Boroughs.

Application forms, obtainable from the Borough Architect, Town Hall, Walthamstow, London, E.17, must be returned to the undersigned by noon on Friday, October 21, 1960.

G. A. BLAKELEY,

Town Clerk.

Town Hall,  
Walthamstow, E.17.  
September 26, 1960.

[7043]

### ESTIMATOR, QUANTITY SURVEYOR

REQUIRED for progressive Contractors in the Mansfield area. Applicant should be between 30-40 years of age and have a proven record of successful tendering and be capable of measuring for and rendering Interim and Final Accounts. Apply in writing in first instance giving full details of qualifications and previous experience with salary range required. All replies treated in strictest confidence.

FLEET BROS. LTD.

72/74 Newgate Lane,  
Mansfield, Notts.

[7052]

## ARCHITECTS

RICHARD Costain Limited invite applications from young qualified men for appointment in their Architect's Department (H. Stanley Smith, ARIBA, Chief Architect).

Major Industrial, Commercial and Multi-Storey projects are undertaken offering an interesting variety of fast-moving work to men wishing to broaden their experience in these fields. The Department is organized on a Group basis with each Group entirely responsible for its own Contracts—design, obtaining quotations, working drawings and site supervision; every member of staff is given the opportunity of making a personal contribution to the success of his Group.

Salaries in the range £900-£1,150 will be offered depending on experience since qualifying. These are subject to regular review on a merit basis and there are excellent promotion prospects in an expanding organization.

Please write to:—

Personnel Officer,  
111 Westminster Bridge Road,  
London, S.E.1.

[7049]

### London County Council Brixton School of Building

REQUIRED as soon as possible, **ASSISTANTS** Grade B to teach in Surveying courses:—

1. Building Construction and Quantities.
2. Legal subjects and Valuations.

Candidates should be corporate members of RICS with experience of professional practice, teaching experience a recommendation.

Salary £700 x £27 10s-£1,150 plus London Allowance £38 or £51, with increments for approved professional experience. Additions for qualifications and training. Application forms (foolscap s.a.e.) from Secretary (FE.3/ABN/2534/10), Ferndale Road, S.W.4, returnable within two weeks. [7051]

### British Railways ASSISTANT ARCHITECTS

ASSISTANT Architects required for the Architect's Office of British Railways, 32 Elmbank Crescent, Glasgow. Good designing ability and ARIBA qualifications essential. Commencing salary between £1,100 and £1,200 per annum. Candidates should apply in writing to the Chief Civil Engineer, British Railways, St. Enoch Station, Glasgow, C.1. [7033]

### County Borough of East Ham SENIOR ASSISTANT ARCHITECT APT III (Salary £880-£1,065 plus London Weighting)

### ARCHITECTURAL ASSISTANTS APT I (Salary up to £805 per annum including London Weighting)

SUBSISTENCE allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes. Further details and application forms, returnable by October 14, 1960, from the Town Clerk, Town Hall, East Ham, E.6. [7034]



## Official Announcements

### APPOINTMENTS (cont)

#### City of Leeds City Architect's Department Quantity Surveying Staff Amended Advertisement

A NUMBER of vacancies occur in the Quantity Surveying Section which deals with the preparation of bills of quantities and other work in connection with the large building programmes of the department. These programmes include schools, housing with multi-storey flats, hostels and other interesting projects and the posts offer opportunities to work as part of a team in a progressive office.

Post No. 1. **Senior Assistant Quantity Surveyor**, Grade B (£1,320-£1,485).

Applicants should have wide experience in the preparation of bills of quantities for major works including schools.

Post No. 2. **Senior Assistant Quantity Surveyor**, Grade A (£1,310-£1,420).

Applicants should have considerable experience in taking off and preference will be given to those with experience in cost analysis and cost planning.

Post No. 3. **Senior Assistant Quantity Surveyors**, Grade APT V (£1,220-£1,375).

Applicants should have considerable experience in taking off, in the measurement of work in progress and the settlement of final accounts for major schemes.

Post No. 4. **Senior Assistant Quantity Surveyors**, Grade APT IV (£1,065-£1,220).

Post No. 5. **Senior Assistant Quantity Surveyors**, Grade APT III (£880-£1,065).

Applicants for posts Nos. 4 and 5 should be experienced in the measurement of variations and the settlement of final accounts for large schemes and should have some experience of taking off.

Post No. 6. **Senior Worker-up**, Grade APT III (£880-£1,065).

The salaries quoted are subject to revision.

It is essential that applicants for this post should have the ability to write a good bill for major schemes and should have wide experience of this type of work in a professional office.

Applicants for posts Nos. 1, 2 and 3 should hold appropriate professional qualifications and applicants for posts Nos. 4 and 5 should have reached the appropriate standard of qualification and preference will be given to those qualifying for the Quantities sub-division of the RICS.

The appointments are superannuable—medical examination.

Assistance will be given in providing housing accommodation in approved cases, if required.

Further details and application forms may be obtained from the undersigned and applications are to be returned by 12 noon on Friday, October 21, 1960. Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,  
City Architect.

Priestley House,  
Quarry Hill,  
Leeds 9.  
September 21, 1960.

[7022]

#### City of Leeds City Architect's Department Amended Advertisement

APPLICATIONS are invited from persons holding appropriate professional qualifications for the following permanent posts:—

- (a) **Assistant City Architect** (Housing).
- (b) **Assistant City Architect** (Education & General).

Salary scale £1,790-£2,085 per annum. Grade 'F'.

The Assistant City Architect (Housing) will be concerned with large house building programmes and should have had a wide experience of all forms of housing layout, comprehensive developments and multi-storey flats.

The Assistant City Architect (Education & General) will be concerned with major educational building projects and large public buildings, e.g. multi-storey college, municipal office block, abattoir, swimming baths, etc.

Both posts carry great responsibilities and offer worthwhile opportunities to those who are keenly interested in design and the planning and organization of extensive municipal building schemes.

Applications are also invited for the following permanent posts in (a) Housing and (b) Education & General sections of the department.

Post No. 1. **Principal Architects**, Grade C (£1,385-£1,620).

Post No. 2. **Assistant Principal Architects**, Grade B (£1,320-£1,485).

Post No. 3. **Senior Assistant Architects**, Grade APT V (£1,220-£1,375).

Post No. 4. **Senior Assistant Architects**, Grade APT IV (£1,065-£1,220).

Post No. 5. **Assistant Architects**, Grade III (£880-£1,065).

Post No. 6. **Architectural Assistants**, Grade APT II (£765-£880).

The salaries quoted are subject to revision.

Applicants for the senior posts must hold appropriate professional qualifications and should have had a wide experience in either housing, education or other types of large public building work and will be required to design and work on these projects to completion. Applicants will be considered on their capability for design, experience, contemporary outlook and suitability.

The appointments are superannuable—medical examination.

Assistance will be given in providing housing accommodation in approved cases, if required.

Further details and application forms, obtainable from the undersigned, are to be returned by 12 noon on Friday, October 21, 1960.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,  
City Architect.

Priestley House,  
Quarry Hill,  
Leeds 9.  
September 21, 1960.

[7023]

#### Salop County Architect's Department

**SENIOR ARCHITECT** required to act as Deputy Group Leader for new work of an interesting character. Salary Grade APT V (£1,220-£1,375 p.a.). Applicants must be Associate RIBA. NJC Conditions. Five-day week.

A disturbance allowance or weekly separation allowance will be paid to a married man taking up this appointment. Conditions of service and application forms obtainable from Ralph Crowe, AADipl, ARIBA, AMTPI, County Architect, Column House, London Road, Shrewsbury. Closing date October 15, 1960.

[7021]

#### Government of Western Nigeria VACANCY FOR SENIOR ARCHITECT

APPLICATIONS are invited from suitably qualified candidates for the post of Senior Architect (On Contract).

**Qualifications:** Degree or Diploma of a recognized School of Architecture and Associateship of Royal Institute of British Architects, plus not less than six years' practical experience since qualification.

**Duties:** Liaison between Chief Architect and other Architectural staff, qualified and unqualified. Designs and preparation of working details of Building projects as directed and supervision of drawing office staff in connection with these schemes. Site survey work and limited supervision of buildings in progress.

**Terms of Appointment:** On a contract of two tours of 12-18 months each in the first instance on a Consolidated salary of £2,748 per annum. Gratuity at the rate of £37 10s for each completed three months' service. Free first-class passages for officer and his family on first appointment and when proceeding on leave; free medical treatment for officer and his family. Accommodation is provided at low rentals.

Application should be completed in triplicate on the prescribed form obtainable from the Official Secretary (Recruitment Branch), Office of the Commissioner for Western Nigeria, 178/202 Great Portland Street, London, W.1, from whom further particulars may also be obtained.

Closing date: October 26, 1960. [7053]

#### The Architectural Association School of Architecture APPOINTMENT OF FIFTH YEAR MASTER

THE Council of the Association offers an appointment for the Fifth Year Master at the Architectural Association School of Architecture.

The appointment is full time for four days a week during the academic year.

The salary is £1,250 per annum.

Full details of the appointment may be had on application to the Secretary, Architectural Association, 36 Bedford Square, London, W.C.1. [7054]

#### Borough of Bedford

##### APPOINTMENT of:

(a) **Assistant Architect**, APT II (£765-£880).

(b) **Assistant Quantity Surveyor**, APT I (£610-£765).

(a) Preference will be given to applicants who have passed the Intermediate examination of the RIBA; the point of entry within the grade being determined by experience and/or further qualifications.

(b) Preference will be given to applicants who have passed the Intermediate examination of the RICS or IQS or are preparing to take one of these examinations in the near future.

The Council has in hand a building programme including schools, multi-storey flats, shops and public offices.

The Council is prepared to assist in the provision of housing accommodation if necessary and will refund removal expenses in the case of each post.

Forms of application and particulars of the appointment may be obtained from the undersigned by whom applications should be received not later than Friday, October 21, 1960.

F. W. DAWKES.

Borough Engineer and Surveyor.  
Newnham House,  
Horne Lane,  
Bedford.

[7064]

## Official Announcements

### APPOINTMENTS (cont)

**The Laing Housing Company**  
have vacancies for  
**ARCHITECTURAL STAFF**  
at their head office at  
Queensbury, Middlesex

WORK to include Estate Layouts, Design and Working Drawings for Houses and Flats.

These positions are permanent, and offer scope for initiative and advancement. Assistance given to those studying for RIBA qualifications.

Conditions include Pension Scheme and other progressive benefits.

Applications in writing, giving brief details of past experience to Personnel Manager (A.L.H.4), John Laing and Son (Holdings), London, N.W.7. [7032]

**London County Council**  
**BRIXTON SCHOOL OF BUILDING**  
Ferndale Road, S.W.4

REQUIRED as soon as possible  
**ASSISTANT LECTURER** (Grade B) in  
Department of Architecture.

The duties will include teaching and studio supervision and the inauguration of a College Planning research project for which time and suitable facilities will be given. Salary £700 x £27 10s-£1,150, plus London Allowance £38 or £51 and additions for qualifications and training. Increments within the scale for approved professional experience. Candidates should be corporate members of RIBA preferably with a Diploma of a Recognized School. Application forms (foolscap s.a.e.) from Secretary, returnable within two weeks.

Please quote (Etab. 6/ABN/2545/10). [7055]

**County Borough of East Ham**  
Borough Engineer's Department  
Applications are invited for the following  
temporary appointments:—

**SENIOR ASSISTANT ARCHITECTS**  
Grade IV (£1,065-£1,220)

London Weighting is paid in addition, and salaries in excess of the minima may be paid according to qualifications and experience. The appointments are for work on a new Technical College and are expected to be for a period of not less than three years.

Further details and application forms, returnable by October 14, 1960, from the Town Clerk, Town Hall, East Ham, E.6. [7035]

**County Borough of Burton upon Trent**  
Borough Architect's Department

APPLICATIONS are invited from suitably qualified persons for the appointment of an **ASSISTANT QUANTITY SURVEYOR** and an **ASSISTANT ARCHITECT** each in the Special Grade (£840 to £1,145) of National Scheme of Conditions of Service. Salaries in accordance with qualifications and experience. Housing accommodation, at a rent, will be provided for the successful candidates if required.

Applications giving age, qualifications, full details of experience and names of two referees, to the Borough Architect, Town Hall, Burton upon Trent, by October 25, 1960.

H. T. MEADES,  
Town Clerk.

Town Hall,  
Burton upon Trent.  
September, 1960. [7057]

### ARCHITECTURAL ASSISTANT OR DRAUGHTSMAN

REQUIRED by KENYA GOVERNMENT MINISTRY OF WORKS on contract for one tour of 36-45 months in first instance.

Commencing salary according to age and experience in Scale (including inducement addition) £879 rising to £1,422 per year (Architectural Assistant) or £813 rising to £1,341 per year (Draughtsman). Gratuity at rate of 13½ per cent of total substantive salary drawn. Outfit allowance £40. Free passages. Liberal leave on full salary. Candidates, 22-45, must possess Intermediate RIBA for Architectural Assistant post, or have had a minimum of four years' post apprenticeship experience in Architect's office with sound knowledge of building construction for Draughtsman post.

Write to CROWN AGENTS, 4 Millbank, London, S.W.1. State age, name in block letters, qualifications and experience, and quote M2B/51158/AF. [7058]

### SOUTHAMPTON COUNTY BOROUGH EDUCATION COMMITTEE SOUTHAMPTON TECHNICAL COLLEGE

Principal: F. T. West, MBE, A1StructE, MIProDE

**DEPARTMENT OF BUILDING**  
LECTURER required January 1, 1961, to teach Quantities, Estimating and kindred subjects to Final examination standard in RICS and IQS courses. Candidates must be Chartered Quantity Surveyors. Salary scale (Burnham F.E. Report) £1,370 x £35-£1,550. Further details and application forms, to be returned in 14 days, from Chief Education Officer (Ref. 57/66), Civic Centre, Southampton. [7063]

### Darlaston Urban District Council APPOINTMENT OF ARCHITECTURAL ASSISTANT APT IV (£1,065-£1,220)

APPLICATIONS are invited for the above appointment in the Engineer and Surveyor's Department at a salary within APT IV (£1,065-£1,220) according to qualifications and experience. Housing accommodation will be available if required.

The appointment is subject to the National Conditions of Service, and the passing of a medical examination. Architectural work being carried out by the department includes housing, work in connection with central area redevelopment, a sports pavilion, and a central depot.

Applications, stating age, qualifications and experience, and giving the names and addresses of two referees, must reach the undersigned not later than October 15, 1960.

Canvassing will disqualify.

G. R. ROWLANDS,  
Clerk of the Council.

Town Hall,  
Darlaston, S. Staffs. [7030]

### TENDERS

**Borough of Scunthorpe**  
Tenders for the erection of one 14-storey block of 79 flats on the Westcliff estate, Scunthorpe

THE Council invite Contractors who have previously undertaken similar contracts and who wish to submit a tender for this work to forward their names to the undersigned not later than Monday, October 10, 1960.

The Council reserve the right to select from the applicants a list of firms who will be invited to submit tenders and does not bind itself to accept the lowest or any tender.

A deposit of 5gn will be required from those firms selected which will be returned on the receipt of a bona-fide tender or return of the Bill of Quantities.

T. M. LISTER,  
Town Clerk.

Municipal Offices,  
34 High Street,  
Scunthorpe.  
September 26, 1960. [7044]

### ARCHITECTURAL APPOINTMENTS VACANT

**DEVEREUX & DAVIES** require capable and enthusiastic assistant architects, salary £1,000 per annum or according to experience and ability.—Devereux & Davies, 3 Gower Street, Bedford Square, London, W.C.1. [0660]

**ARCHITECTURAL ASSISTANT**, Intermediate standard. Busy London office. Good prospects. Box 3668. [0080]

**WEST END OFFICE** requires Assistant Architects of Final and Intermediate Standards for interesting industrial projects in Home Counties. Good salaries offered to men with initiative and ability. Bonus scheme, five-day week, holiday arrangements honoured. Box 0627. [0380]

**ARCHITECTURAL ASSISTANT** required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners, 20 Bedford Square, London, W.C.1. [0916]

**W. S. HATTRELL & PARTNERS**, who are engaged on a wide range of work including Central and Urban Redevelopment Schemes, Television Studios, Schools, Licensed premises, Factories, Office Blocks, Training College, Shops, Exhibition Hall, etc., urgently require:—

(a) **ARCHITECTS** with good design sense and first-class knowledge of construction and administration capable of taking charge of contracts and controlling junior staff.

(b) **ARCHITECTURAL ASSISTANTS** capable of preparing full working drawings, specifications, etc., under supervision and keen to gain experience.

Salaries, which are reviewed annually, are dependent on ability and experience. Vacancies exist in our Coventry, London and Manchester offices and if you are capable, enthusiastic and prepared to work hard in a busy, lively, expanding practice, apply, stating experience, salary required and which of our offices you would prefer to work in, to 1 Queens Road, Coventry. [7001]

**ARCHITECTURAL ASSISTANT**, London, Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667. [0079]

## Official Announcements

### ARCHITECTURAL APPOINT- MENTS VACANT (cont)

**RESPONSIBLE ASSISTANTS** for colleges, hostels, schools, offices. Salary according to ability. Apply Charles Pike & Partners, 14 Lincoln's Inn Fields, W.C.2, or phone HOL 3532. [7018]

**ARCHITECT'S ASSISTANTS** required in Central Birmingham office to work on a variety of interesting projects. Salary according to experience and ability £750 to £1,000. Five-day week. Birmingham Central 6139 or Box No. 1879. [7014]

**ARCHITECTS** of differing grades required for a variety of interesting work, particularly industrial. Please apply: A. M. Gear & Associates, 12 Manchester Square, London, W.1. Telephone: HUNter 0331. [6981]

**ASSISTANT ARCHITECTS** required for staffing a new office opening in Southampton for work on interesting programmes for Universities, the War Department and Ecclesiastical projects. Juniors also required. [7037]

Apply stating age, qualifications, experience and salary required to Robert Potter, F.R.I.B.A., and Richard Hare, B.Arch., A.R.I.B.A., of De Vaux House, Salisbury. [0337]

**ASSISTANT ARCHITECTS & ASSISTANTS** required, all levels. Geens & Cross, Metropole Chambers, Lansdowne, Bournemouth. [7041]

**ASSISTANT ARCHITECT** with experience and/or interest in schools and multi-storey flats. Write Eric Lyons, Mill House, Bridge Road, Hampton Court, Surrey. [0338]

**ASSISTANT ARCHITECTS & ASSISTANTS** required, all levels. Ronald Sims, Metropole Chambers, Lansdowne, Bournemouth. [7042]

**A VACANCY** occurs in the West End Branch of large provincial Architectural Practice for an assistant at Intermediate standard. The post offers considerable scope on varied projects. Five-day week. Luncheon Vouchers. Write, giving particulars of age, experience and salary required, to Box 1620. [7039]

**ARCHITECTURAL ASSISTANT** required in office in the City of London. Intermediate standard. Salary according to ability and experience. Pension scheme. L.V.s. Hours 9.30-5.30. Write Box AN.717, c/o Hanway House, Clark's Place, E.C.2. [7038]

**ARCHITECTURAL ASSISTANTS** of final standard required immediately for busy country practice with varied programme of work. Some office experience essential. Experience in country house and ecclesiastical work an advantage. Salary by arrangement. Write stating experience and salary required to Forsyth Lawson, Cunningham & Partners, 30 Horse Fair, Banbury, Oxon. [7037]

**MANNING AND CLAMP** have vacancies for architectural assistants of up to five years' office experience in their Richmond Green and London offices. The work covers a wide range of building types and includes large industrial and commercial buildings, parking garages, luxury flats, restaurants and Local Authority work, amongst other things. Apply in writing to No. 19, The Green, Richmond, Surrey. [0336]

**HOWARD V. LOBB & PARTNERS** require assistant architects. Salaries would be between £750 and £1,250 per year. Please write to 20 Gower Street, London, W.C.1. [0352]

A vacancy occurs in the office of **DAVID STERN & PARTNERS** for each of the following posts:—(a) **SENIOR ASSISTANT ARCHITECT** (£950-£1,250).

Applications are invited from suitably qualified Architects or men of Final RIBA standard who have completed several years of sound and varied office experience.

The successful applicant will be required to undertake a wide variety of work including multi-storey OFFICE S, FLATS, FACTORIES, SHOPS and CONVERSIONS. The work is of a progressive nature and applicants should possess a good sense of design allied to a sound knowledge of detailing and modern constructional methods.

(b) **ASSISTANT ARCHITECT** (£750-£1,000).

Applicants should be Post-Intermediate RIBA standard with some office experience, willing to accept responsibility and work on own initiative. Good prospects for early promotion to the senior grades.

Five-day week and holidays by arrangement.

To discuss joining us telephone HUNter 0451, or write to 24 Gloucester Place, W.1. [7060]

**PETER EDNIE & PARTNERS**, of 4 Gray's Inn Square, W.C.1, require Experienced Assistants for permanent staff. Life and pension schemes operating. [7059]

**TWO ARCHITECTS/PLANNERS** needed by Covell & Matthews to join design group dealing with large planning and architectural projects. Salaries by arrangement. Telephone either London REGent 3651 or Manchester CENTral 7851. [6941]

## HEAVY ORGANIC CHEMICALS DIVISION



has a vacancy for an

### ARCHITECTURAL ASSISTANT

in a small Architectural Section led by an Architect, within the Engineering Department. The work calls for close liaison with chemists and engineers in the design of buildings associated with chemical plant, including offices, laboratories, workshops and general amenity buildings.

The assistant should have a sound knowledge of modern building construction and good design ability allied with a clear appreciation of the inter-relationship between structure, cladding services and cost. Membership of the R.I.B.A. is desirable but not essential.

The Company offers attractive salaries, pension fund and profit-sharing scheme. Removal expenses and assistance in house purchase are available to married men.



Please write giving brief details of qualifications, experience or present course of study to:

Personnel Manager  
I.C.I. (Heavy Organic Chemicals) Ltd.  
Organic House  
BILLINGHAM, Co. Durham  
quoting reference ED/WH/2

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## Official Announcements

### ARCHITECTURAL APPOINT- MENTS VACANT (cont)

**VACANCIES FOR ASSISTANTS** to work individually on a variety of projects. Qualifications preferred, but not essential. Write or telephone any time for interview. Frank H. Saunders, ARIBA, 9 Palmer's Avenue, Grays, Essex. Grays Thurrock 2146. [7046]

**ARCHITECTURAL ASSISTANT** required, able to work on own initiative, varied practice, small office, opportunity for advancement. Write or phone, Nicholson & Rushton, 2 New Square, Lincoln's Inn, W.C.2. HOLborn 2095. [0980]

**A QUALIFIED ARCHITECTURAL ASSISTANT** required immediately in Home Counties office. Successful applicant will have the opportunity of working on widely varying industrial, commercial and housing schemes. Five-day week. Write full particulars to Box 1621. [7040]

**ARCHITECTURAL ASSISTANTS** required. Preferably with ability to run contracts, mainly commercial work. Five-day week. Apply E. Davie, FRIBA, AMPTI, Chief Staff Architect, Hillier Parker May & Rowden, 77 Grosvenor Street, W.1 (Mayfair 7666). [7048]

**ARCHITECTURAL ASSISTANTS AND JUNIOR DRAUGHTSMEN** urgently required for architect's department of Dolcis Ltd. Interesting work, five-day week, pension scheme. Write stating age, experience and salary required to Ellis E. Somake, FRIBA, Chief Architect, Dolcis Ltd., 7/13 Great Dover Street, S.E.1. [0349]

**BASIL SPENCE & PARTNERS** require qualified and experienced Architects to fill positions of responsibility in a major building programme. Write to 48 Queen Anne Street, W.1, stating experience and salary required. [0740]

**ELIE MAYORCAS** requires architectural assistants with a minimum of three years' office experience in this country. Write, giving brief particulars of architectural education and experience, and salary required, to: 13 David Mews, Baker Street, W.1. [0360]

**RONALD WARD & PARTNERS** invite applications from Architects, senior and junior. Long-term prospects. Scope for initiative and responsibility in interesting commercial, industrial and civic projects in British Isles, West Africa and Australia. Salaries commensurate with ability. Non-contributory Pension and Life Insurance schemes. Five-day week. Pleasant offices. Apply 29 Chesham Place, Belgrave Square, London, S.W.1. Tel: BELgravia 3361. [6971]

## Miscellaneous Announcements

**Rate** 1/9d per line minimum 3/6d, average line 6 words. Each paragraph charged separately. **Situations wanted** - advertisements are accepted at the specially reduced rate of 6d per line minimum 1/6d

**Box Numbers** - add two words plus 1s for registration and forwarding replies which should be addressed c/o "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

**Semi-display** - advertisements with centralized lines are charged at 25s per inch, and pro rata, minimum half inch. **Press Day** - Monday. Remittances payable to Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

NO RESPONSIBILITY ACCEPTED FOR ERRORS

### SITUATIONS VACANT

**EXPERIENCED** Builder's General Foreman required. Apply G. E. Sargeantson & Son Ltd., 12 Kingsway, Scunthorpe. State age, experience and salary required, also three references will be needed. [6925]

**ASSISTANT QUANTITY SURVEYOR** of Intermediate to Final Standard capable of taking-off and dealing with Final Accounts. Good opportunity for widening experience. Professional office, Westminster. Five-day week, luncheon vouchers and pension scheme. Write stating experience and salary required. Box 1845. [7006]

**LADY TRACER/DRAUGHTSWOMAN** required by Consulting Civil Engineers. Interesting and varied work. Five-day week. L.V. Apply to M. Nachshen and Partners, 58 Victoria Street, S.W.1. VIC 0285. [7036]

### DRAINAGE AND SANITARY

Representative with sound technical knowledge of Drainage and Sanitary Materials required to call on London Architects, etc. Full details of experience and salary required to Managing Director, John Knowles & Co. (London) Ltd., 13-21 Knight's Hill, S.E.27. [7061]

**BRANCH MANAGER** required, builders' merchant, Enfield. Contributory pension and profit-sharing scheme operating. Apply in own handwriting with full details past experience, salary required and when free. Box No. 2006. [7050]

### BUILDINGS FOR SALE

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### BUILDING

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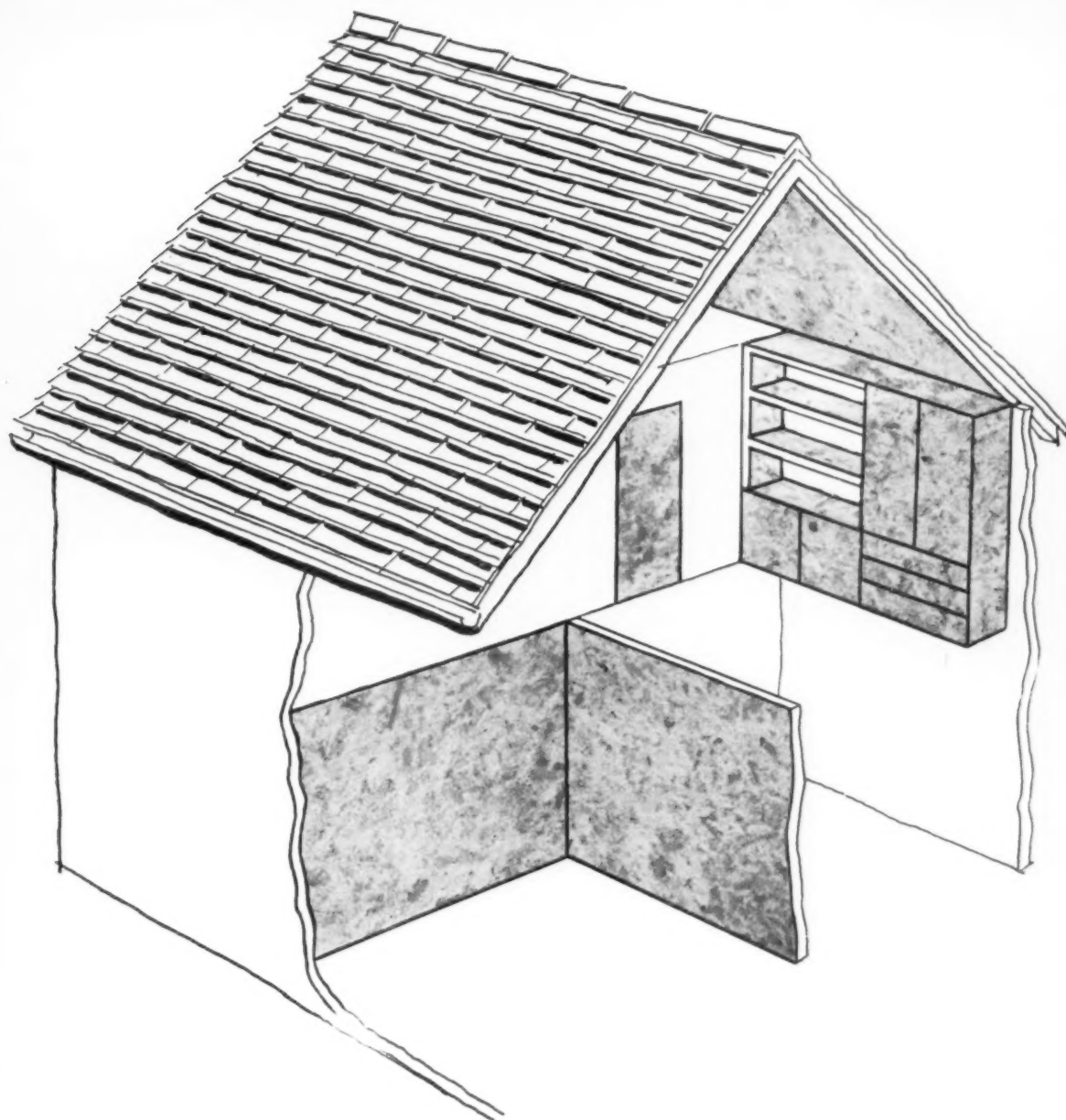
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